

Civil Engineering and Development
Department

Operation of Tuen Mun Fill Bank
at Tuen Mun Area 38 from 2019
to 2023

*Second Annual Air Quality Impact
Assessment Review*

May 2020

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Reference 0551020

For and on behalf of ERM-Hong Kong, Limited	
Approved by:	Frank Wan
Signed:	
Position:	Partner
Date:	20 May 2020

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1 INTRODUCTION

1.1 BACKGROUND

In accordance with requirements in Condition 3.28 of the current EP, an air quality impact assessment (AQIA) review is required to be carried out annually during the extended operation (i.e. 2019 to 2023) of Tuen Mun Fill Bank (TMFB) to demonstrate compliance of the prevailing Air Quality Objectives (AQOs), taking into account the latest operational conditions of TMFB as well as potential changes to emissions of adjacent industrial sources, if any. Additional mitigation measures associated with the TMFB operation, if required, will be recommended in order to achieve compliance of the AQOs.

The First Annual Air Quality Impact Assessment Review Report (hereafter referred to as “2019 AQIA Review Report”) was submitted to EPD and approved on 31 May 2019 as per requirement under Condition 3.28 of the current EP-210/2005/C.

ERM-Hong Kong, Ltd (ERM) has been commissioned by Civil Engineering and Development Department (CEDD) to prepare the second *Annual AQIA Review Report*. The assessment covers the operation period from June 2020 to May 2021 (hereafter referred to as the “Review Period”).

2.1 REVIEW OF TMFB OPERATION

To facilitate the handling of the accumulating construction and demolition materials (C&D materials) within the TMFB and the provision of fill materials for use in construction and reclamation projects, CEDD proposes to establish a site crusher to treat these C&D materials and export them off-site. The proposed site crusher will operate from 07:00-23:00 hrs daily, with a processing capacity of 100 tonnes/hour. Stockpile of the C&D materials will be transported via internal trucks to the proposed site crusher for crushing. The crushed fill materials will then be transported by internal trucks directly to the existing barging points B1 and B2 for export. It should be noted that no additional off-site road traffic will be generated by the proposed operation of the site crusher.

The operation of the proposed site crusher has been considered in this assessment for the Review Period. Other activities associated with the TMFB operation remain essentially the same as those assumed in the 2019 AQIA Review Report. Key aspects of the TMFB operation conditions are summarised in *Table 2.1*. The locations of the proposed site crusher and other key facilities within TMFB are illustrated in *Figure 2.1*.

Table 2.1 Key Aspects of TMFB Operation Conditions

Key Item	Current Operation Conditions	Operation Conditions (June 2020 to May 2021)
Stockpiling Capacity	• 4.2 million m ³	• No change
Maximum stockpiling height	• 40mPD	• No change
Operating hours for reception of public fill delivered by trucks	• From 08:30 hrs to 19:00 hrs, daily (close during Chinese New Year and public holidays)	• No change
Nos. of incoming truck trips (public fill delivered by road)	• 1,300 truck loads/day	• No change
Operating hours of barging points	<ul style="list-style-type: none"> • B1, B2, B3 (exporting): 24 hour operation • IB1 and IB2 (importing): from 07:00 hrs to 23:00 hrs 	<ul style="list-style-type: none"> • No change • No change
Operation of the C&DMSF (NSA)	• 572 tonnes/hour (24 hour operation)	• No change
Operation of the proposed site crusher	-	• 100 tonnes/hour (from 07:00 hrs to 23:00 hrs daily)

2.2 PROJECTS IN TUEN MUN AREA 38 AND IN THE PROXIMITY

2.2.1 Construction & Demolition Materials Sorting Facility (C&DMSF)

The processing capacity of the existing C&DMSF in the vicinity of TMFB will remain the same as the current capacity of 700 tonnes/day, for the purpose to estimate the dust emission rates associated with truck movements, materials handling and other applicable activities.

2.2.2 Future Development in Tuen Mun Areas 40 and 46

CEDD and PlanD have jointly commissioned a consultancy study viz. Agreement No. 20/2012 (TP) – Planning and Engineering Study for Tuen Mun Areas 40 and 46 and Adjoining Areas. The study area boundary also covers a portion of Tuen Mun Area 38 including the existing fill bank. Upon checking with CEDD and PlanD, such consultancy has been commenced in 2013 and is still ongoing. The proposed landuses in Tuen Mun Areas 40 and 46 and the implementation programme of the proposed landuses/development will be determined in the consultancy. The completion year of the development is expected to be beyond 2023. No information can be referenced at the time of preparation of this *Review Report*. As this future development is not expected to commence within the Review Period, it has not been considered in this assessment.

2.2.3 Planned Logistic Development in Tuen Mun Area 49

A proposed logistics development situated in Tuen Mun Area 49 has been approved by the Town Planning Board. The development includes a Cargo Handling and Forwarding Facility with ancillary offices. The subject site was awarded to Goodman Group on 2 May 2018. The construction of the proposed logistics development is expected to be completed by 31 December 2023 according to the Gazette Note G.N. 1748 of the Lands Department published on 29 March 2018.

2.2.4 Potential Logistic Development in Tuen Mun Area 38

A logistic development would potentially be constructed in Tuen Mun Area 38 as part of the future Tuen Mun West development. The construction and implementation programme of the development is currently under review. No information can be referenced at the time of preparation of this *Review Report*. As this future development is not expected to commence within the Review Period, it has not been considered in this assessment.

3.1 INTRODUCTION

This *Section* presents the review and assessment of the potential air quality impact associated with the TMFB operation and other industrial sources in the vicinity of TMFB for the upcoming 1 year (i.e. June 2020 to May 2021).

3.2 LEGISLATIVE REQUIREMENT AND EVALUATION CRITERIA

The principal legislation for the management of air quality in Hong Kong is the *Air Pollution Control Ordinance (APCO)* (Cap. 311). Under the APCO, the *Hong Kong Air Quality Objectives (AQOs)* (see *Table 3.1*) stipulate the statutory limits for air pollutants and the maximum allowable numbers of exceedances over specific periods.

Table 3.1 *Hong Kong Air Quality Objectives*

Air Pollutant	Averaging Time	Concentration ($\mu\text{g m}^{-3}$) ^(a)	No. of Exceedances Allowed per Year
Sulphur Dioxide (SO ₂)	10 minute	500	3
	24-hours	125	3
Respirable Suspended Particulates (RSP) ^(b)	24-hours	100	9
	Annual	50	-
Fine Suspended Particulates (FSP) ^(c)	24-hours	75	9
	Annual	35	-
Nitrogen Dioxide (NO ₂)	1-hour	200	18
	Annual	40	-
Carbon Monoxide (CO)	1-hour	30,000	0
	8-hour	10,000	0
Ozone (O ₃)	8-hour	160	9
Lead	Annual	0.5	-

Notes:

(a) Measured at 293K and 101.325 kPa.

(b) Suspended particles in air with a nominal aerodynamic diameter of 10 μm or less

(c) Suspended particles in air with a nominal aerodynamic diameter of 2.5 μm or less

The *Technical Memorandum on the Environmental Impact Assessment Process (EIAO-TM)* issued under the *EIAO* states that the hourly concentration of Total Suspended Particulates (TSP) should not exceed 500 $\mu\text{g m}^{-3}$ (measured at 25 °C and 1 atmosphere) at Air Sensitive Receivers (ASRs) for dust impact assessment. The *Air Pollution Control (Construction Dust) Regulation* also recommends dust control measures for dust generating activities. Requirements stipulated in the *Air Pollution Control (Non-road Mobile*

Machinery (Emission) Regulation will also be followed to control potential emissions from non-road mobile machinery within TMFB.

3.3 BASELINE CONDITIONS

The Study Area is defined as 500m from the TMFB site boundary as shown in *Figure 3.1*. A number of industrial sites are located to the west of TMFB within the Study Area, including Green Island Cement (GIC), Shiu Wing Steel Mill (SWSM), EcoPark and Permanent Aviation Fuel Facility (PAFF). The local air quality of the Project Site area is primarily influenced by vehicular emissions from local road networks, emissions associated with the operation of the TMFB as well as stack emissions from the aforementioned industrial sites.

3.3.1 EPD's Air Quality Monitoring Station

The nearest EPD's Air Quality Monitoring Station (AQMS) is located in Tuen Mun. The concentrations of RSP, FSP, NO₂ and SO₂ recorded at this AQMS in the past 5 years (2014 - 2018) are presented in *Table 3.2*.

Table 3.2 Concentrations of Air Pollutants Measured at the EPD's Tuen Mun AQMS in the Past 5 Years (2014 - 2018)

Year	Concentrations of Pollutants ($\mu\text{g m}^{-3}$)							
	19 th highest 1- hr NO ₂	Annual NO ₂	4 th highest 24-hr SO ₂	4 th highest 10-min SO ₂	10 th highest 24-hr RSP	Annual RSP	10 th highest 24-hr FSP	Annual FSP
2014	184	53 ^(a)	33	128	125 ^(b)	47	83 ^(c)	30
2015	184	48 ^(a)	27	90	110 ^(b)	45	76 ^(c)	30
2016	167	51 ^(a)	28	75	103 ^(b)	44	63	27
2017	188	46 ^(a)	26	88	99	43	65	27
2018	177	47 ^(a)	20	94	87	42	53	26
Prevailing AQOs	200	40	125	500	100	50	75	35
Notes:								
(a) Exceedance of annual average NO ₂ criterion.								
(b) Exceedance of 24-hour average RSP criterion.								
(c) Exceedance of 24-hour average FSP criterion.								
(d) EPD's Tuen Mun AQMS is located at Tuen Mun Public Library, 1 Tuen Hi Road.								

The annual average NO₂ concentrations exceeded the relevant AQO criterion for the past five years (2014-2018). Exceedances of 24-hour average RSP criterion were recorded from 2014 to 2016 but were in compliance for the recent 2 years (i.e. 2017 and 2018). Exceedances of 24-hour average FSP were recorded in 2014 and 2015 but were in compliance for the recent 3 years (i.e. 2016 to 2018).

It should be noted that the Tuen Mun AQMS is situated in the urbanised area of Tuen Mun and more than 4km away from the Project site. Given the differences in land use and the considerable separation distance, the

monitoring data recorded at Tuen Mun AQMS may not be representative of the current baseline air quality at the Project site.

3.3.2 *CLP Power Hong Kong Limited (CLP)'s Air Quality Monitoring Station at Lung Kwu Tan*

The concentrations of NO₂ and SO₂ recorded at CLP's AQMS at Lung Kwu Tan in the past 5 years (2014 – 2018) are presented in *Table 3.3*.

Table 3.3 *Concentrations of Air Pollutants Measured at CLP's Lung Kwu Tan AQMS in the Past Five Years (2013 - 2017)*

Year	Concentrations of Pollutants (µg m ⁻³)			
	19 th highest 1-hour NO ₂	Annual NO ₂	4 th highest 24-hour SO ₂	4 th highest 10-min SO ₂
2014	149	27	24	131
2015	125	23	18	100
2016	131	24	33	163
2017	160	25	31	157
2018	144	28	36	148
Prevailing AQOs	200	40	125	500

The measured 1-hour average NO₂, annual NO₂, 10-minute SO₂ and 24-hour SO₂ concentrations in the past 5 years comply with the respective criteria.

CLP's AQMS is located at Lung Kwu Tan which is a relatively remote area approximately 2.5km from the Project site. The environment in Lung Kwu Tan and the Project site is relatively similar as compared to the Tuen Mun AQMS. The monitoring data recorded at the CLP's AQMS may provide a better indication of the current baseline air quality at the Project site.

3.4 *AIR SENSITIVE RECEIVERS*

A number of representative existing ASRs as well as planned ASRs that may exist during the Review Period have been identified within the Study Area and they are listed in *Table 3.4*. The locations of the identified representative ASRs are shown in *Figure 3.1*.

Table 3.4 Identified Representative ASRs

ASR	Description	Type of Use ^(a)	Approx Separation Distance from the Site Boundary (m)	Approx Base Elevation (m)	Approx Max. Height (m above ground)
A3	EcoPark Tenant: WEEE	Industrial	30	5	4.5
A4	EcoPark Tenant: South China	Industrial	25	5	4.5
A5	EcoPark Tenant: Chung Yue	Industrial	20	5	4.5
A9	EcoPark Administration Building	Industrial	255	6	4.5
A10	PAFF Office	Industrial	465	5	4.5
A11 ^(a)	Proposed Modern Logistics Development at TM Area 49	Industrial	70	10	10

Note:
(a) Planned ASR that may be present within the Review Period.

3.5 POTENTIAL SOURCES OF AIR EMISSIONS

3.5.1 Air Emission Sources Associated with TMFB Operation

The potential key air emission sources within TMFB were identified as below:

- Dust emissions from the TMFB operational activities including fill material handling at stockpiling areas and barging points, operation of material sorting facility (NSA) and the proposed site crusher (C&DMCF), truck movements on major haul roads, as well as wind erosion from stockpiling areas;
- Vehicular emissions from internal roads within TMFB (incoming trucks and internal trucks); and
- Emissions from the proposed site crusher (C&DMCF) and marine vessels (e.g. barges, derrick lighter, tugboat) during berthing and maneuvering for exporting and importing fill materials.

3.5.2 Air Emission Sources in the Vicinity of TMFB

Other potential key air emission sources within the Study Area include:

- Stack emissions from adjacent industrial sites including GIC, SWSM and EcoPark;
- Vehicular emissions from external roads within 500m of the Study Area; and
- Emissions from the existing C&DMSF and marine vessels during berthing and maneuvering for material transport at the berth next to C&DMSF.

As discussed in *Section 2.2.3*, the planned logistics development at Tuen Mun Area 49 has been awarded and its construction and operation may commence during the Review Period. The construction of the planned logistics development at Tuen Mun Area 49 will not involve large-scale excavation works and thus potential dust impacts during the construction are expected to be minimal. Industrial emissions could be involved during the operation of the logistics development depending on the actual industrial operations but such information is not available at the time of preparation of this *Review Report*. Potential induced traffic arising from the logistics development is expected to be minor and has been considered in the traffic forecast. Therefore, adverse concurrent air quality impact during the construction and operation of the logistics development is not expected.

3.5.3 *Key Air Pollutants of Interest*

The operation of TMFB primarily involves a number of activities including fill material handling, truck movements on haul roads as well as operation of sorting and crushing facilities, which may potentially give rise to dust impact at nearby ASRs. Operation of marine vessels, truck movements and the proposed site crusher may also contribute gaseous emissions. Therefore, TSP, RSP, FSP, NO₂ and SO₂ were identified to be the key air pollutants of interest associated with the TMFB operation and they have been assessed quantitatively.

3.6 *ASSESSMENT METHODOLOGY AND ASSUMPTIONS*

3.6.1 *Dust Emissions from TMFB Operational Activities*

The dust emission sources associated with TMFB operational activities include fill material handling (loading/unloading at stockpiling areas and barging points), operation of material sorting facility (NSA) and the proposed site crusher (C&DMCF), truck movements on haul roads and wind erosion from stockpiling areas. The locations of the aforementioned dust emission sources are illustrated in *Figure 3.2*. The TSP, RSP and FSP emission rates were estimated based on published documents and references such as *Compilation of Air Pollutant Emission Factors, AP-42, 5th Edition* by the United States Environmental Protection Agency (USEPA). Air quality mitigation measures as recommended in the Environmental Review Report for the Application for Variation of Environmental Permit (VEP) in 2018 (2018 ER Report) and the current EP-210/2005/C will continue to be implemented. These mitigation measures are presented in *Section 3.7* and have been considered in the assessment. The detailed TSP, RSP and FSP emission rate calculations, assumptions and emission inventory of these dust emission sources are provided in *Annex A1*.

3.6.2 *Emissions from Marine Vessels and Site Facilities*

Berthing and maneuvering emissions from marine vessels (i.e. barges, derrick lighter, tugboat) for exporting and importing fill materials, as well as emissions from diesel generators associated with the operation of the existing

C&DMSF and the proposed site crusher (C&DMCF) may give rise to RSP, FSP, NO₂ and SO₂ impacts. There is no gaseous emissions from NSA within the TMFB as it has been operated on electricity from CLP since 1 July 2019 as per requirement in the current EP-210/2005/C. With the operation of the proposed site crusher, barging points B1, B2 and B3 will continue to operate for 24 hours same as current operation, assuming 24-hour emissions from marine vessels (berthing and maneuvering) at these barging points. The operation of the two other barging points (i.e. IB1 and IB2) for receipt of incoming public fill remains to be from 07:00 to 23:00 hrs where the amount of incoming public fill via marine route is minimal as most of the incoming public fill arrives at TMFB by trucks. In addition, the berth next to the existing C&DMSF may be used as a barging point for transport of bridge segment for the proposed Development of Kwu Tung North and Fanling North Project during the operation of TMFB and the associated berthing and maneuvering emissions have been considered in the assessment. The locations of the barging points, the diesel generators of the C&DMSF and the proposed site crusher are shown in *Figure 3.2*. The detailed RSP, FSP, NO₂ and SO₂ emission rate calculations, assumptions and emission inventory are provided in *Annex A1*.

3.6.3 Vehicular Emissions from Internal and External Roads

NO₂, RSP and FSP emissions arising from TMFB internal road traffic (incoming trucks and internal trucks) and other external road traffic within the Study Area will contribute to the overall air quality impacts and thus have been considered in the quantitative assessment. Due to the operation of the proposed site crusher, there will be additional truck trips along the new haul roads R18, R19, R20, R21 and R22. However, the projected traffic flows for the identified external roads remain unchanged as no off-site road traffic will be generated as a result of the proposed site crusher. As presented in the 2018 ER Report, vehicular emissions within the Study Area were predicted to be the highest in 2019 during the extended operation of TMFB (i.e. 2019 to 2023) and thus projected traffic flows for the identified external roads in 2019 were adopted in this assessment. Traffic information for internal and external roads adopted in this assessment is detailed in *Annex A3*. The traffic forecast has been endorsed by Transport Department and the approval letter is provided in *Annex A6*. In order to minimise the potential air quality impacts to EcoPark due to vehicular emissions from TMFB internal road traffic, the mitigation measures as recommended in the 2018 ER Report and as presented in *Section 3.7* would continue to be implemented and have been considered in this assessment. The internal road alignment and external roads within the Study Area are illustrated in *Figure 3.2* and *Figure 3.3*, respectively.

3.6.4 Other Major Industrial Emissions in the Vicinity of TMFB

GIC and SWSM

Stack emissions from GIC and SWSM may contribute to the cumulative air quality impact and thus have been considered in the quantitative assessment.

The locations of these emission sources are shown in *Figure 3.3* and the emission inventory for GIC and SWSM is provided in *Annex A2*.

EcoPark

Waste Reduction Group of EPD (WRG) has been consulted with regard to the tenant conditions and potential emissions within EcoPark during the Review Period. There are four existing tenants with potential emissions within EcoPark, namely WEEE-Park, SSK Metal (waste batteries), K Wah and South China. WEEE-Park, SSK Metal and South China would continue to operate with the same emissions as assumed in the 2019 AQIA Review Report. Emissions from K Wah have been updated with reference to the SP licence register and the updated emissions have been adopted in this assessment. WRG advised that the proposed waste plastics recycling at Lots T1 and T6 that was considered in the 2019 AQIA Review Report will not commence operation within the Review Period or the next review period (i.e. up to May 2022). Champway with its new biomass heating system may commence operation at Lot T5 within the Review Period and the new biomass heating system may lead to combustion emissions including NO_x, SO₂ and PM. The emission inventory for EcoPark is provided in *Annex A2*. As advised by WRG of EPD, the emission inventory for EcoPark adopted in the Review Period is also valid for the next review period (i.e. up to May 2022). The locations of the existing and potential emission sources within EcoPark are shown in *Figure 3.3*.

3.6.5 *Assumptions and Modelling Approach*

Air Dispersion Model and Meteorological Data

An EPD's recommended air dispersion model, AERMOD, was used to assess the potential air quality impact at the identified ASRs from dust emissions, marine emissions and industrial emissions. The quantitative assessment has been conducted following the latest EPD's *Guidelines for Local-scale Air Quality Assessment Using Model*.

The relevant PATH grids in which the identified ASRs are located have been identified. The predicted meteorological data for the relevant PATH grids were used for model input. The relevant PATH grids for the identified ASRs are shown in *Table 3.5*.

Table 3.5 *Relevant PATH Grids for the Representative ASRs*

ASR	Description	Relevant PATH Grid
A3	Eco Park Tenant: WEEE	16, 39
A4	EcoPark Tenant: South China	15, 38
A5	EcoPark Tenant: Chung Yue	15, 38
A9	EcoPark Administration Building	15, 39
A10	PAFF Office	15, 38
A11	Proposed Modern Logistics Development	16, 39

AERMET was run to generate AERMOD-ready meteorological data for AERMOD model input. The land use parameters, including albedo, bowen ratio and surface roughness are required inputs for AERMET. The land use of 1km from the identified ASRs within each PATH grid has been evaluated to determine the PATH-grid specific surface roughness values. The land uses of 10km x 10km from the Project Site have also been evaluated to determine the values of albedo and bowen ratio for the PATH grids. Detailed calculations of albedo, bowen ratio and surface roughness are presented in *Annex A4*. Land use maps illustrating the determination of the land use parameters are also shown in *Annex A4*.

The AERMET/AERMOD model input parameters and assumptions for the assessment are summarised in *Table 3.6*.

Table 3.6 *Model Input Parameters and Assumptions for Assessment*

Input Parameters & Assumptions	Descriptions
Air dispersion model	AERMOD
Type of source	<ul style="list-style-type: none"> Point sources, area sources
Assessment parameter	<ul style="list-style-type: none"> 1-hour TSP 24-hour RSP and annual RSP 24-hour FSP and annual FSP 1-hour NO₂ and annual NO₂ 10-minute SO₂ and 24-hour SO₂
Meteorological data	<ul style="list-style-type: none"> Weather Research and Forecasting Model (WRF) data in 2010 from PATH-2016 to be used to input into AERMET to produce AERMOD-ready meteorological data PATH Grid – (15,38), (15,39) and (16,39) Actual mixing heights recorded by the HKO in 2010 were in the range of 121m to 1,667m. Mixing heights from WRF data which are lower than 121m or higher than 1,667m to be adjusted to 121m and 1,667m, respectively Wind direction of 0° to be adjusted to 360° Wind speed smaller than 1m s⁻¹ to be adjusted to 1m s⁻¹ Anemometer height of WRF data = 9m

An EPD’s recommended model, EMFAC-HK v4.1, was used to predict the vehicular emission factors of NO_x, RSP and FSP for the 16 vehicle types in 2019. “EMFAC” mode was used for the model run. EMFAC input assumptions, the output emission factors of NO_x, NO, NO₂, RSP and FSP for the 16 vehicle types and the calculation of the composite emission factors are presented in *Annex A3*. An EPD’s recommended air dispersion model, CALINE4, was used for predicting the NO₂, NO, RSP and FSP impacts due to vehicular emissions from the identified internal roads and open roads within the Study Area. Details of the road configurations are provided in *Annex A3*. Since the highest road height allowed in the input into CALINE4 model is limited at 10m, any road with road height greater than 10m was set at a height of 10m in the CALINE4 model as a conservative approach.

The land use types have been examined within an area of 3 km radius from the concerned PATH grids. As industrial, commercial and residential land uses account for less than 50% of the examined area, rural area was assumed and the surface roughness height of 100cm for rural area was adopted for the CALINE4 model run. Wind directional variability was calculated based on the following formula according to the stability class with reference to Irwin, J.S., 1980 ⁽¹⁾.

$$S_o = S \times (Z_o/15\text{cm})^{0.2}$$

Where

Z_o = is the surface roughness length (in cm) of the PATH grid;
 S_o = is the standard deviation of the horizontal wind direction Fluctuations (in degrees)
 S = is the standard deviation of the horizontal wind direction fluctuations (in degrees) for an aerodynamic surface roughness length of 15cm with reference to Irwin, J.S., 1980. S is a function of Pasquill stability class.

Table 3.7 shows the standard deviations of the horizontal wind direction fluctuations under different Pasquill Stability categories for the concerned PATH grid.

Table 3.7 *The Standard Deviation of the Horizontal Wind Direction Fluctuations under Different Pasquill Stability Categories*

Pasquill Stability Class	Standard Deviation of the Horizontal Wind Direction Fluctuations (in degrees)
PATH Grid (15,38), (15,39), (16,39)	
A	32.9
B	32.9
C	25.6
D	18.3
E	11.0
F	5.6

The CALINE4 model input parameters and assumptions are summarised in Table 3.8.

(1) Dispersion Estimate Suggestion #8: Estimation of Pasquill Stability Categories. U.S. Environmental Protection Agency, Research Triangle Park, NC. (Docket Reference No.II-B-10), Irwin, J.S., 1980.

Table 3.8 Model Input Parameters and Assumptions for Assessment of Vehicular Emissions

Input Parameters & Assumptions	Descriptions
Air dispersion model	<ul style="list-style-type: none"> • CALINE4
Year of traffic flow	<ul style="list-style-type: none"> • Year 2019
Vehicle emission factors	<ul style="list-style-type: none"> • EMFAC-HK emission factors for 2019
Assessment parameter	<ul style="list-style-type: none"> • 24-hour RSP and annual RSP • 24-hour FSP and annual FSP • 1-hour NO₂ and annual NO₂
Meteorological data	<ul style="list-style-type: none"> • Weather Research and Forecasting Model (WRF) data in 2010 from PATH-2016 • PATH Grid - (15,38), (15,39) and (16,39) • Actual mixing heights recorded by the HKO in 2010 were in the range of 121m to 1,667m. Mixing heights from WRF data which are lower than 121m or higher than 1667m to be adjusted to 121m and 1,667m, respectively • Wind speeds smaller than the 0.5 m s⁻¹ recommended by the CALINE4 model were adjusted to 0.5 m s⁻¹. • Stability class calculated by PCRAMMET (version 99169) • Calculation of wind directional variability based on stability class and surface roughness length of 100 cm for rural areas.

Background Air Quality

For the assessment of NO₂ impact, the PATH-2016 model in 2019 was re-run to exclude NO_x emissions from road traffic and industrial emissions (i.e. GIC) within the Study Area and marine emissions off the coast of EcoPark and TMFB (Grid 15,38). This is to avoid double counting of NO_x emissions from road traffic and industrial emissions which have been considered in Tier-2 contributions. The same amount of marine NO_x emissions removed from the PATH-2016 model have been added to Tier-2 (AERMOD).

The hourly NO₂ concentrations in 2019 predicted by the PATH-2016 model re-run were adopted as the background air quality. The hourly RSP and SO₂ concentrations in 2019 from the unmodified PATH-2016 model run obtained from EPD's website were used as the background air quality for the assessment.

The background air pollutant concentrations predicted by the PATH-2016 model in 2019 for the PATH grids within the Study Area adopted in this assessment are presented in *Table 3.9*. The use of background air pollutant concentrations in 2019 produce conservative assessment results as background air pollutant concentrations in 2020 and beyond are lower than those in 2019.

Table 3.9 Background Air Pollutant Concentrations Predicted by the PATH-2016 Model in 2019

PATH Grid	Concentration of Pollutants ($\mu\text{g m}^{-3}$)								
	19 th highest 1-hour NO ₂ ^(c)	Annual NO ₂ ^(c)	4 th highest 24-hour SO ₂	4 th highest 10-min SO ₂ ^(a)	10 th highest 24-hour RSP ^(b)	Annual RSP ^(b)	10 th highest Daily Max. 8-hour O ₃	Daily Max. 1-hour CO	Daily Max. 8-hour CO
15, 38	126	32	40	208	86	38	140	975	837
15, 39	120	27	37	189	82	35	152	974	834
16, 39	124	28	36	169	84	36	155	975	829
Prevailing AQOs	200	40	125	500	100	50	160	30,000	10,000

Notes:

- (a) The multiplicative factor for the stability class calculated for each hour was applied to the 1-hour SO₂ concentrations to estimate the 10-minute SO₂ concentrations.
- (b) An adjustment of 26.5 $\mu\text{g}/\text{m}^3$ and 15.6 $\mu\text{g}/\text{m}^3$ were added to the RSP background for calculation of 24-hour RSP and annual RSP, respectively.
- (c) The presented NO₂ results are from PATH-2016 model re-run with NO_x emissions from road traffic and industrial emissions in relevant PATH grids removed to avoid double-counting.

As shown in *Table 3.9*, the background air pollutant concentrations in the relevant PATH grids in 2019 are below the relevant AQO criteria.

In accordance with the *Guidelines on Choice of Models and Model Parameters* published by EPD, an adjustment of 26.5 $\mu\text{g m}^{-3}$ and 15.6 $\mu\text{g m}^{-3}$ was added to hourly RSP background predicted by PATH-2016 for the assessment of 24-hour and annual RSP, respectively.

FSP data are not available in the hourly PATH-2016 background concentration results provided by the EPD. According to the EPD's *Guidelines on the Estimation of PM_{2.5} for Air Quality Assessment in Hong Kong*, FSP hourly background data can be obtained by multiplying the PATH-2016 hourly RSP background with a weight fraction. *Table 3.10* presents the EPD recommended FSP to RSP ratios which are adopted in this assessment.

Table 3.10 FSP to RSP Ratios as recommended by the EPD

	Annual	24-hour
FSP (PM _{2.5})/RSP (PM ₁₀) ratio	0.71	0.75

Note:

- (a) Reference to EPD's "*Guidelines on the Estimation of PM_{2.5} for Air Quality Assessment in Hong Kong*".

Post-processing of Modelling Results

For stack emissions, the hourly concentrations of NO_x were predicted at the relevant assessment heights of the identified ASRs. Ozone Limiting Method (OLM) was adopted for the conversion of NO_x to NO₂. The initial NO₂/NO_x ratio for stack emissions was assumed to be 0.1 ⁽¹⁾, with NO and NO₂

(1) Air Quality Studies for Heathrow: Base Case, Segregated Mode, Mixed Mode and Third Runway Scenarios modelled using ADMS-Airport, 2007.

comprising 90% and 10% of NO_x, respectively. For vehicular emissions, individual NO₂/NO_x ratios of each vehicle type in 2019 have been used to estimate the overall NO and NO₂ emissions arising from road traffic with reference to recommendation in EPD's *Guidelines for Local-scale Air Quality Assessment Using Models*.

The predicted NO concentrations from all modelled sources were converted to NO₂ based on Ozone Limiting Method (OLM) and were added with the predicted NO₂ concentrations from all modelled sources to determine the total predicted NO₂ concentrations at the ASRs. The total predicted NO₂ concentrations were calculated as follows:

$$[\text{NO}_2]_{\text{pred total}} = [\text{NO}_2]_{\text{pred}} + \text{MIN} \{ [\text{NO}]_{\text{pred}}, \text{ or } (46/48) \times [\text{O}_3]_{\text{bkgd}} \}$$

where

- $[\text{NO}_2]_{\text{pred total}}$ = the total predicted NO₂ concentration
- $[\text{NO}_2]_{\text{pred}}$ = sum of the predicted NO₂ concentration due to direct emissions from all sources
- $[\text{NO}]_{\text{pred}}$ = sum of the predicted NO concentration from all sources
- MIN means the minimum of the two values within the brackets
- $[\text{O}_3]_{\text{bkgd}}$ = the representative O₃ background concentration; (46/48) is the molecular weight of NO₂ divided by the molecular weight of O₃

Predicted ozone concentrations in 2019 obtained from the PATH-2016 model re-run were used for the conversion of NO_x to NO₂ in OLM.

The hourly SO₂ concentrations at the identified ASRs were converted into 10-minute SO₂ concentrations for comparison with the respective AQO criterion. According to the EPD's "*Guidelines on the Estimation of 10-minute Average SO₂ Concentration for Air Quality Assessment in Hong Kong*", it is recommended that the stability-dependent multiplicative factors from Duffee *et al.*, 1991⁽¹⁾ be used. The conversion factors adopted in this assessment for the different stability classes are shown in *Table 3.11*.

Table 3.11 Conversion Factors from 1-hour to 10-minutes Mean Concentrations

Pasquill Stability Class	Conversion Factor (1-hour to 10-minute)
A	2.45
B	2.45
C	1.82
D	1.43
E	1.35
F	1.35

Note:

(a) Reference to the EPD's "*Guidelines on the Estimation of 10-minute Average SO₂ Concentration for Air Quality Assessment in Hong Kong*"

(1) Richard A. Duffee, Martha A. O'Brien and Ned Ostojic (1991) Odor Modeling - Why and How. Page 295, *Recent Developments and Current Practices in Odor Regulations, Controls and Technology*. Air & Waste Management Association, 1991.

Cumulative Impact

The predicted TSP, RSP, FSP, NO₂ and SO₂ results from AERMOD and CALINE4 models at each ASR were added up with the PATH-2016 background concentrations on an hour-by-hour basis. Considering that vehicular RSP emissions also contribute to the total TSP impact, TSP results from AERMOD were added up with the RSP results from CALINE4 and PATH-2016 background RSP concentrations to assess the cumulative TSP impact. The relevant time period averages for each air pollutant assessed were calculated and compared with the relevant assessment criteria to evaluate the cumulative air quality impact at the identified ASRs.

3.7

AIR QUALITY MITIGATION MEASURES

Relevant dust control measures stipulated in the *Air Pollution Control (Construction Dust) Regulation* will continue to be implemented in the Review Period. Requirements stipulated in the *Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation* will also be followed to control potential emissions from non-road mobile machinery within TMFB.

Air quality mitigation measures relevant to the proposed site crusher operation are listed below:

- Haul roads and material stockpiling areas associated with the operation of the proposed site crusher will be watered at least once every hour to minimise potential dust generation;
- At the barging point, the drop height between the barge and dump trucks shall be minimised;
- Tipping halls provided for transfer of public fill from trucks to barges shall be top and 3-sides enclosed;
- Truck speed within the site shall be controlled to within 10km/hour; and
- The proposed site crusher will be switched off when not in use as far as practicable to reduce potential gaseous emissions.

Other air quality control measures as recommended in the 2018 ER Report and in the latest EP-210/2005/C to reduce potential air quality impact to the surrounding (in particular EcoPark) will continue to be implemented during the Review Period. These include:

- Major haul roads and material stockpiling areas will be watered at least once every hour during operation to ensure that the roads and stockpiling areas are kept sufficiently dampened;
- Temporary slope surfaces of the stockpiling areas shall be covered with tarpaulin sheets or other impermeable sheets, or sprayed with water or a dust suppression chemical;

- Internal haul roads R3, R4, R5 and R11 shall be kept wet at all times;
- Site hoarding of at least 2.4m high shall be provided along the boundaries of the site except at the site entrance/exit;
- Vehicle wheel washing facilities including high pressure water jets shall be provided at designated vehicle exit points and operated by designated staff. Before leaving the site, every vehicle shall be washed to remove any dusty materials from its body and wheels;
- Trucks carrying dusty load entered to the site shall be sprayed with water once the impervious sheeting covering the load is removed;
- All public fill delivery trucks carrying dusty load leaving the fill bank shall be required to be covered entirely by clean impervious sheeting to prevent the dusty materials leaking from the vehicles;
- All haul roads within the site shall be paved with concrete, bituminous materials, hardcores or metal plates;
- At the barging point, the drop height between the barge and dump trucks shall be minimised;
- Tipping halls provided for transfer of public fill from trucks to barges shall be top and 3-sides enclosed;
- Truck speed within the site shall be controlled to within 10km/hour;
- All dusty fill materials shall be sprayed with water or a dust suppression chemical prior to loading, unloading or transfer so as to maintain the fill material wet, except of situations where the moisture content of the dusty material is a matter of concern;
- Loading of public fill delivered by barges to the site shall be sprayed with water at the material landing point to minimise dust emissions except when the materials are sufficiently dampened when landed. Any mist spraying applied should only dampen the dusty materials and overwatering should be avoided;
- Belt conveyor systems used for transfer of dusty materials shall be enclosed on top and 2 sides. Every transfer point between two conveyors shall be totally enclosed;
- Belt conveyor shall be equipped with bottom plates or other similar means to prevent falling of materials from the return belt;
- The vertical distance between the belt conveyor and the material landing point shall be maintained at no more than 1m;

- Dusty materials loaded from a belt conveyor outlet to stockpiles, storage bins, trucks, barges and other open areas shall be sprayed with water or a dust suppression chemical;
- Haul road R11 shall be no less than 75m away from the western site boundary of TMFB;
- Vertical barrier of 5m high shall be erected along the west side of haul road R11;
- Sorted material from NSA shall be delivered to the barging point B3 via an enclosed conveyor belt system to avoid delivery by trucks;
- NSA and its associated enclosed conveyor belt system was connected to CLP power supply since 1 July 2019 to avoid emissions from diesel generators; and
- Internal trucks within TMFB shall be at least of Euro V emission standard.

3.8 EVALUATION OF IMPACTS

3.8.1 TSP, RSP and FSP Impacts

Cumulative TSP, RSP and FSP impacts on the identified ASRs have been assessed. The predicted cumulative maximum 1-hour TSP, 10th highest 24-hour and annual RSP, and 10th highest 24-hour and annual FSP at the worst affected height of the identified ASRs are presented in *Table 3.12*. Detailed results of all relevant assessment heights of each ASR are provided in *Annex A5*.

Table 3.12 Predicted Cumulative TSP, RSP and FSP Concentrations at the Worst Affected Height at Identified ASRs

ASR	Predicted Cumulative Concentration ($\mu\text{g m}^{-3}$)				
	Max 1-hour TSP	10 th Highest 24-hour RSP ^(a)	Annual RSP	10 th Highest 24-hour FSP ^(a)	Annual FSP
A3	368.1	86.7	38.4	65.2	26.8
A4	364.5	92.2	42.9	68.2	29.3
A5	455.5	93.1	42.8	67.2	28.8
A9	202.3	84.7	37.6	63.3	26.6
A10	203.6	90.2	40.4	67.3	28.9
A11	314.4	86.0	37.3	64.6	26.4
Criteria ^(b)	500	100	50	75	35

Notes:

(a) The AQO allows 9 exceedances over a year, therefore, the results presented are in the 10th highest.

(b) The 1-hour TSP criterion is referenced from EIAO-TM. RSP and FSP criteria are AQO criteria.

The assessment results show that the cumulative TSP, RSP and FSP impacts at the identified ASRs comply with the relevant AQO criteria. Therefore, adverse TSP, RSP and FSP impact due to TMFB operation during the Review Period is not anticipated.

3.8.2 *NO₂ Impacts*

Cumulative NO₂ impacts on the identified ASRs have been assessed. The predicted cumulative 19th highest 1-hour NO₂ and annual NO₂ at the worst affected height of the identified ASRs are presented in *Table 3.13*. Detailed results of all relevant assessment heights of each ASR are provided in *Annex A5*.

Table 3.13 *Predicted Cumulative NO₂ Concentrations at the Worst Affected Height at Identified ASRs*

ASR	Predicted Cumulative Concentration ($\mu\text{g m}^{-3}$)	
	19 th Highest 1-hour NO ₂ ^(a)	Annual NO ₂
A3	150.5	38.0
A4	146.5	39.2
A5	147.3	39.2
A9	139.4	37.0
A10	137.6	37.4
A11	153.3	38.7
AQO Criteria	200	40
Note:		
(a) The AQO allows 18 exceedances over a year, therefore, the results presented are in the 19 th highest.		

The assessment results show that the cumulative NO₂ impacts at the identified ASRs comply with the relevant AQO criteria. Therefore, adverse NO₂ impact due to TMFB operation during the Review Period is not anticipated.

3.8.3 *SO₂ Impacts*

Cumulative SO₂ impacts on the identified ASRs have been assessed. The predicted cumulative 4th highest 10-minute SO₂ and 4th highest 24-hour SO₂ at the worst affected height of the identified ASRs are presented in *Table 3.14*. Detailed results of all relevant assessment heights of each ASR are provided in *Annex A5*.

Table 3.14 *Predicted Cumulative SO₂ Concentrations at the Worst Affected Height at Identified ASRs*

ASR	Predicted Cumulative Concentration ($\mu\text{g m}^{-3}$)	
	4 th Highest 10-min SO ₂ (a)	4 th Highest 24-hour SO ₂ (a)
A3	200.0	37.0
A4	228.2	42.5
A5	247.8	42.2
A9	207.1	37.7
A10	208.4	40.5
A11	186.9	37.0
AQO Criteria	500	125
Note:		
(a) The AQO allows 3 exceedances over a year, therefore, the results presented are in the 4 th highest.		

The assessment results show that the cumulative SO₂ impacts at the identified ASRs comply with the relevant AQO criteria. Therefore, adverse air quality impact from potential SO₂ emissions due to TMFB operation during the Review Period is not anticipated.

3.9 *EM&A REQUIREMENTS*

The monitoring locations, monitoring frequency and equipment used for the existing 1-hour and 24-hour TSP monitoring as required under the EM&A programme will remain unchanged. 1-hour TSP levels and 24-hour TSP levels will be monitored three times every six days and once every six days, respectively, using high volume samplers. The locations of TM-A1 and TM-A2 are shown in *Figure 3.1*.

3.10 *VALIDITY OF THE ASSESSMENT RESULTS FOR THE REVIEW PERIOD*

As discussed in *Section 3.6.4*, the tenant and emission information for EcoPark provided by WRG of EPD for the Review Period is also valid for the next review period (i.e. up to May 2022). Provided that the operation condition and emissions associated with TMFB, adjacent industrial emissions (besides EcoPark), the ASR locations, etc remain unchanged, the assessment results for the Review Period are also valid for the next review period (i.e. from June 2021 to May 2022) and thus adverse air quality impact is also not anticipated for the next review period. This is subject to review during the third Annual AQIA Review.

CONCLUSIONS

The potential air quality impacts associated with the TMFB operation as well as adjacent industrial sources in the upcoming 1 year (i.e. during the Review Period, June 2020 to May 2021) have been evaluated. The operation of the TMFB during the Review Period has been reviewed and the latest operational conditions within the TMFB has been taken into account in this assessment. In addition, industrial emission sources within the Study Area have been reviewed. Emissions within EcoPark during the Review Period have been updated based on latest information provided by WRG of EPD. The assessment results demonstrated that the predicted cumulative pollutant concentrations at the ASRs comply with the prevailing AQOs and thus no adverse air quality impact is anticipated during the Review Period.

The existing air quality mitigation measures and monitoring being implemented within the TMFB remain applicable and no additional mitigation measure or monitoring is considered necessary.

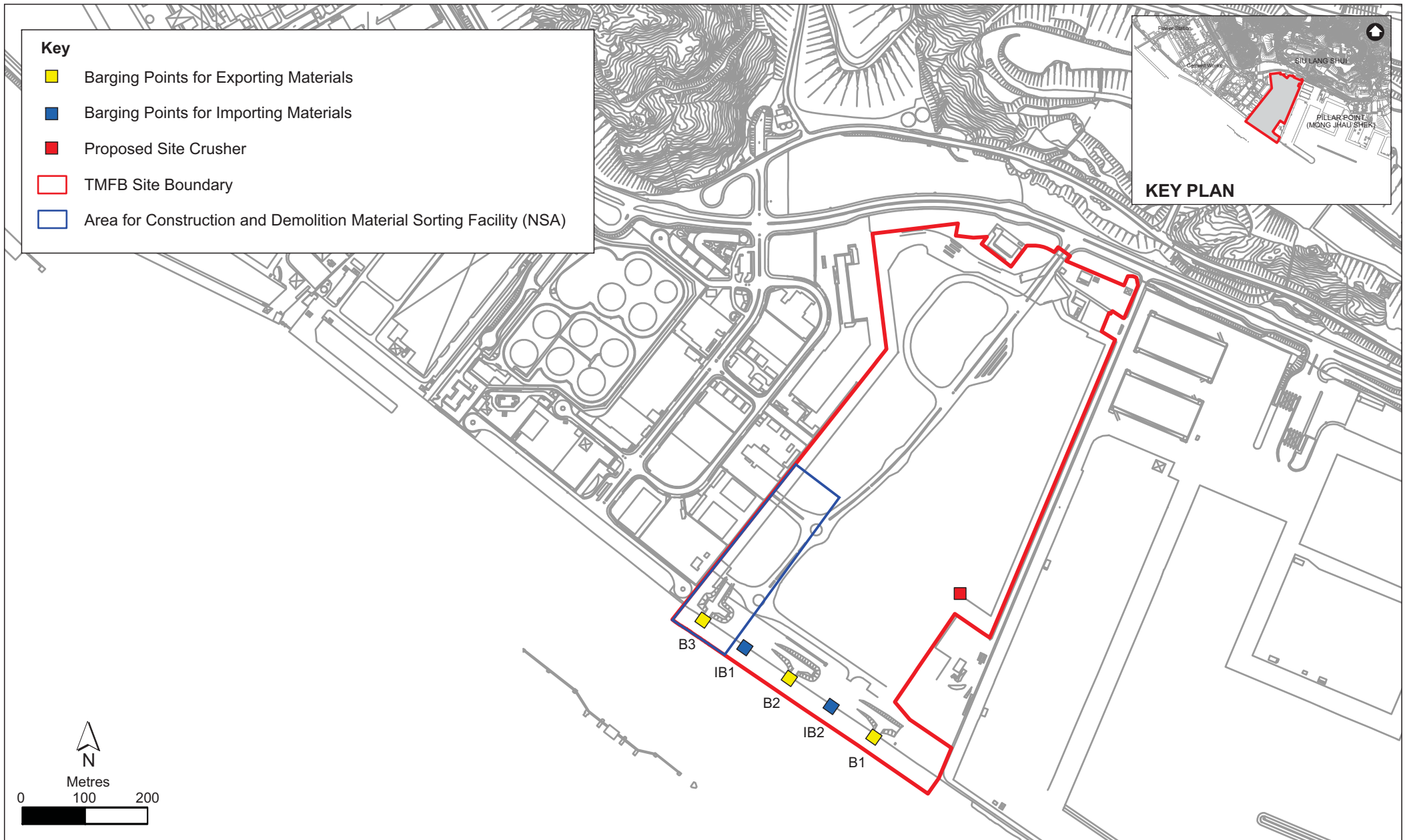
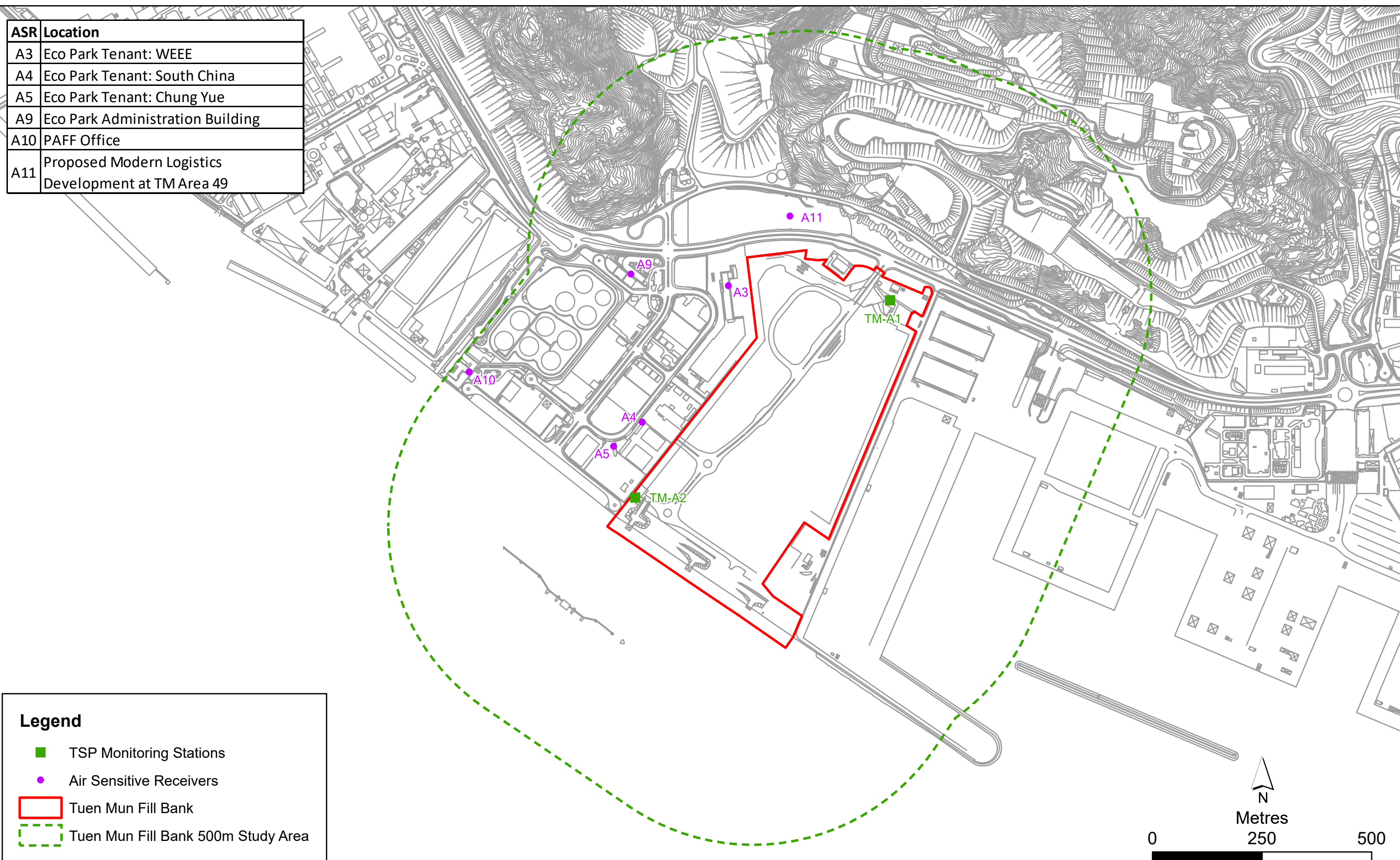


Figure 2.1

Locations of Key Facilities within Tuen Mun Fill Bank

ASR	Location
A3	Eco Park Tenant: WEEE
A4	Eco Park Tenant: South China
A5	Eco Park Tenant: Chung Yue
A9	Eco Park Administration Building
A10	PAFF Office
A11	Proposed Modern Logistics Development at TM Area 49



Legend

- TSP Monitoring Stations
- Air Sensitive Receivers
- Tuen Mun Fill Bank
- Tuen Mun Fill Bank 500m Study Area

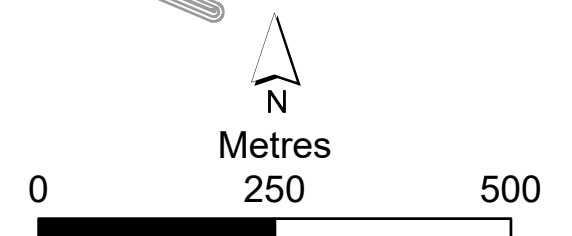


Figure 3.1

Locations of Representative Air Sensitive Receivers and TSP Monitoring Stations

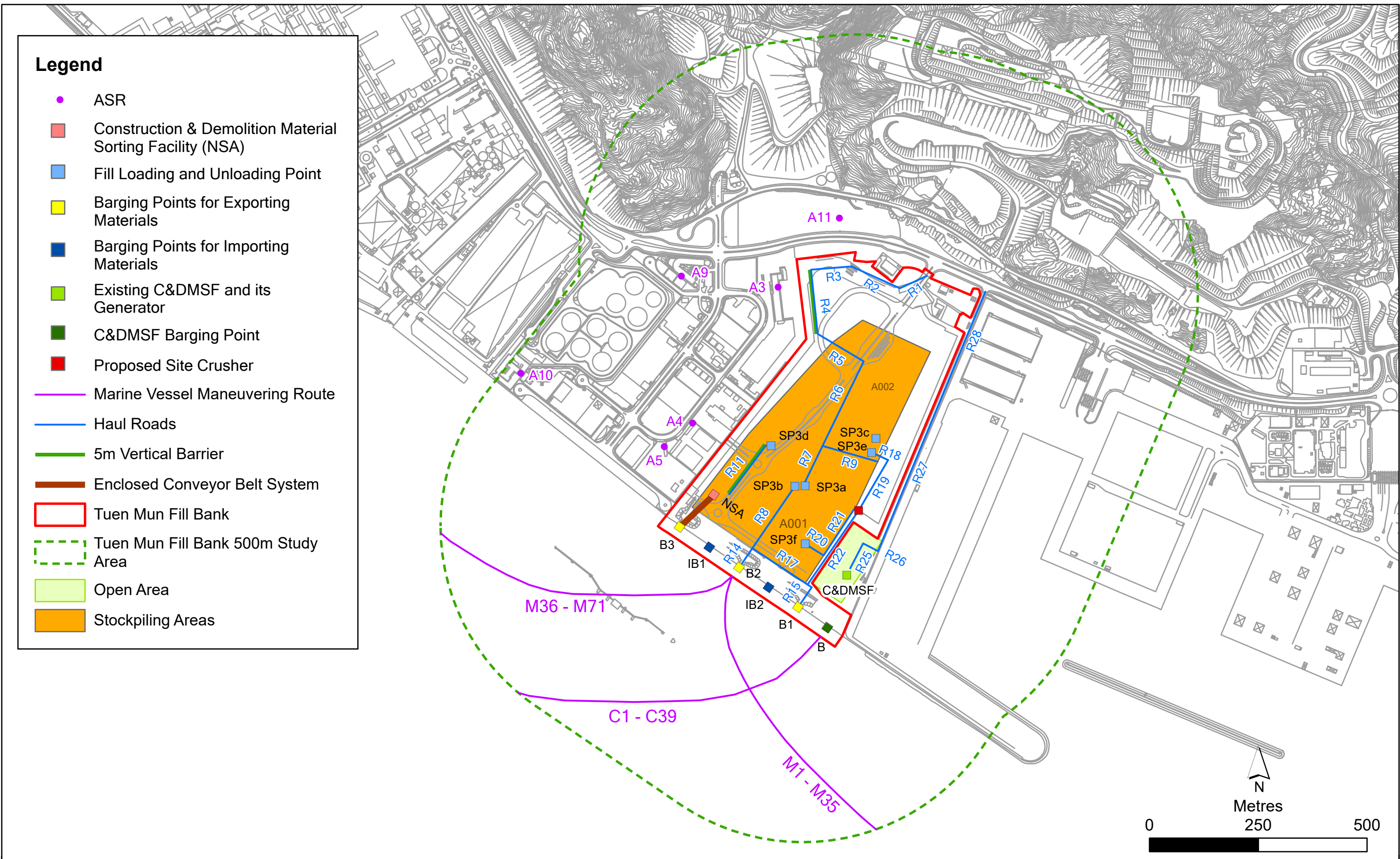


Figure 3.2

Locations of Major Emission Sources Associated with Tuen Mun Fill Bank Operation

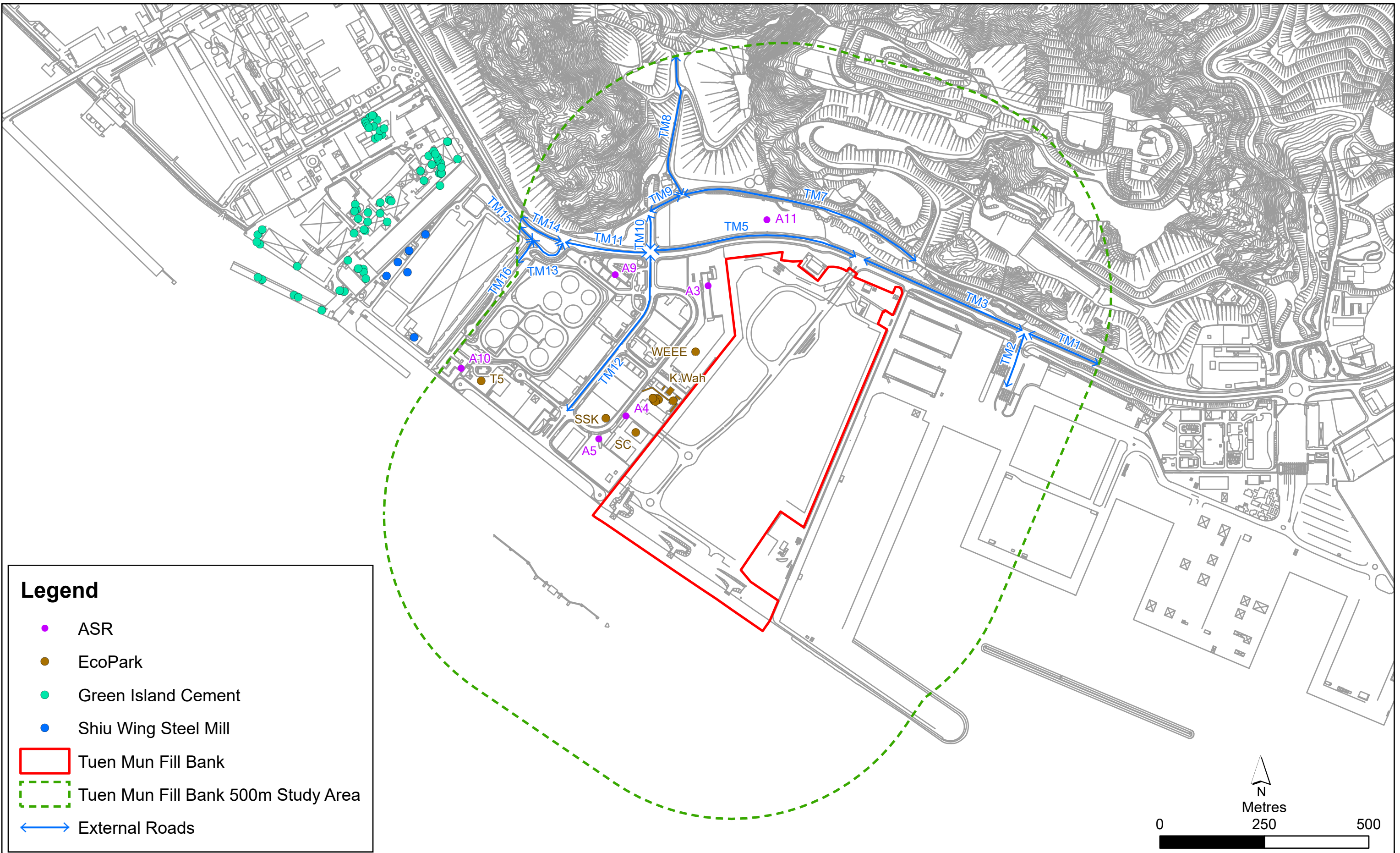


Figure 3.3

External Roads and Industrial Sources within 500m Study Area

Annex A

Details of Air Quality Assessment

Annex A1

Emission Inventory and
Detailed Emission Rate
Calculations for Sources
Associated with TMFB
Operation (Except
Vehicular Emissions)

Annex A1 - TSP, RSP and FSP Emission Rate Calculations for Dust Emission Sources within TMFB

Item	Location	Source	Pollutant	Parameters	Value	Unit	Emission Rate				Reference		
							Unmitigated	Mitigated	Unit	% Reduction (a)			
1	Stockpiling Areas (A001 and A002)	wind erosion	TSP	Emission Factor	0.85	Mg/ha/yr	2.70E-06	2.24E-07	g/m2/s	91.7	AP-42, Section 11.9 (Edition 10/98), Table 11.9-4		
			RSP	Emission Factor	0.40	Mg/ha/yr	1.27E-06	1.06E-07	g/m2/s	91.7	AP-42, Section 13.2.4 (Edition 11/06)		
			FSP	Emission Factor	0.06	Mg/ha/yr	1.93E-07	1.60E-08	g/m2/s	91.7	AP-42, Section 13.2.4 (Edition 11/06)		
	Open Area (A003)	wind erosion	TSP	Emission Factor	0.85	Mg/ha/yr	2.70E-06	2.70E-06	g/m2/s	0	AP-42, Section 11.9 (Edition 10/98), Table 11.9-4		
			RSP	Emission Factor	0.40	Mg/ha/yr	1.27E-06	1.27E-06	g/m2/s	0	AP-42, Section 13.2.4 (Edition 11/06)		
			FSP	Emission Factor	0.06	Mg/ha/yr	1.93E-07	1.93E-07	g/m2/s	0	AP-42, Section 13.2.4 (Edition 11/06)		
2	Stockpiling Areas (A001 and A002)	Material Handling at SP3a	Truck Capacity	Truck Capacity	14.3	tonnes/truck					Provided by CEDD		
				Truck Quantity	1300	truck/day						Provided by CEDD	
				working hours	10.5	hours						Provided by CEDD	
			Emission Factor	TSP	2.13E-04	kg/Mg	1.05E-01	1.05E-02	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)		
				RSP	1.01E-04	kg/Mg	4.96E-02	4.96E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)		
				FSP	1.53E-05	kg/Mg	7.52E-03	7.52E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)		
			Material Handling at SP3b (daytime)	Truck Capacity	Truck Capacity	14.3	tonnes/truck						Provided by CEDD
					Truck Quantity	1050	truck/day						Provided by CEDD
					working hours	16	hours						Provided by CEDD
		Emission Factor		TSP	2.13E-04	kg/Mg	5.56E-02	5.56E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)		
				RSP	1.01E-04	kg/Mg	2.63E-02	2.63E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)		
				FSP	1.53E-05	kg/Mg	3.98E-03	3.98E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)		
		Material Handling at SP3b (nighttime)		Truck Capacity	Truck Capacity	14.3	tonnes/truck						Provided by CEDD
					Truck Quantity	525	truck/night						Provided by CEDD
					working hours	8	hours						Provided by CEDD
			Emission Factor	TSP	2.13E-04	kg/Mg	5.56E-02	5.56E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)		
				RSP	1.01E-04	kg/Mg	2.63E-02	2.63E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)		
				FSP	1.53E-05	kg/Mg	3.98E-03	3.98E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)		
	Material Handling at SP3d (daytime)		Truck Capacity	Truck Capacity	14.3	tonnes/truck						Provided by CEDD	
				Truck Quantity	640	truck/day						Provided by CEDD	
				working hours	16	hours						Provided by CEDD	
		Emission Factor	TSP	2.13E-04	kg/Mg	3.39E-02	3.39E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)			
			RSP	1.01E-04	kg/Mg	1.60E-02	1.60E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)			
			FSP	1.53E-05	kg/Mg	2.43E-03	2.43E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)			
		Material Handling at SP3d (nighttime)	Truck Capacity	Truck Capacity	14.3	tonnes/truck						Provided by CEDD	
				Truck Quantity	320	truck/night						Provided by CEDD	
				working hours	8	hours						Provided by CEDD	
	Emission Factor		TSP	2.13E-04	kg/Mg	3.39E-02	3.39E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)			
			RSP	1.01E-04	kg/Mg	1.60E-02	1.60E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)			
			FSP	1.53E-05	kg/Mg	2.43E-03	2.43E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)			
	Material Handling at SP3c		Truck Capacity	Truck Capacity	14.3	tonnes/truck						Provided by CEDD	
				Truck Quantity	10	truck/day						Provided by CEDD	
				working hours	10.5	hours						Provided by CEDD	
		Emission Factor	TSP	2.13E-04	kg/Mg	8.07E-04	8.07E-05	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)			
			RSP	1.01E-04	kg/Mg	3.82E-04	3.82E-05	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)			
			FSP	1.53E-05	kg/Mg	5.78E-05	5.78E-06	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)			

Emission factor = $k(0.0016)(U/2.2)^{1.3}/(M/2)^{1.4}$

Aerodynamic Particle Size Multiplier (k)				
< 30 µm	< 15 µm	< 10 µm	< 5 µm	< 2.5 µm
0.74	0.48	0.35	0.2	0.053

AP-42, Section 13.2.4 (Edition 11/06)

U = 4.237 m/s Note (a)

M = 12.5 % Note (b)

(a) Wind data from PATH-2016 (Grid 16,38)

(b) Measured averaged moisture content from 2013 TMFB ERR

Emission factor for paved road: $E (g/vkt) = k ((sL)^{0.91}) * (W)^{1.02}$

Aerodynamic Particle Size Multiplier (k) - g/vkt			
< 30 µm	< 15 µm	< 10 µm	< 2.5 µm
3.23	0.77	0.62	0.15

AP-42 Section 13.2.1 (Edition 1/11)

sL = 2.4 g/m2 Note (c)

W = 25.1 US ton Note (d)

(c) Surface silt loading for quarry with reference to 2013 TMFB ERR

(d) Mean vehicle weight.
Loaded truck is 30MT; Unloaded truck is 15.7MT.

Annex A1 - TSP, RSP and FSP Emission Rate Calculations for Dust Emission Sources within TMFB

Item	Location	Source	Pollutant	Parameters	Value	Unit	Emission Rate				Reference	
							Unmitigated	Mitigated	Unit	% Reduction (a)		
		Material Handling at SP3e		Handling rate	50	tonnes/hour					Provided by CEDD	
			TSP	Emission Factor	2.13E-04	kg/Mg	2.96E-03	2.96E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
			RSP	Emission Factor	1.01E-04	kg/Mg	1.40E-03	1.40E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
			FSP	Emission Factor	1.53E-05	kg/Mg	2.12E-04	2.12E-05	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
		Material Handling at SP3f		Handling rate	50	tonnes/hour					Provided by CEDD	
			TSP	Emission Factor	2.13E-04	kg/Mg	2.96E-03	2.96E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
			RSP	Emission Factor	1.01E-04	kg/Mg	1.40E-03	1.40E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
			FSP	Emission Factor	1.53E-05	kg/Mg	2.12E-04	2.12E-05	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
3	C&DMSF	Material handling and screening at C&DMSF		Handling Capacity	700	tonnes/day					Provided by CEDD	
				working hours	12	hours					Provided by CEDD	
				Emission Factor (screening)	1.10E-03	kg/Mg	1.78E-02	1.78E-02	g/s	0	AP-42, Table 11.19.2-1, Screening (controlled)	
				Emission Factor (handling)	2.13E-04	kg/Mg	3.46E-03	3.46E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
				Emission Factor (screening)	3.70E-04	kg/Mg	6.00E-03	6.00E-03	g/s	0	AP-42, Table 11.19.2-1, Screening (controlled)	
				Emission Factor (handling)	1.01E-04	kg/Mg	1.64E-03	1.64E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
				Emission Factor (screening)	2.50E-05	kg/Mg	4.05E-04	4.05E-04	g/s	0	AP-42, Table 11.19.2-1, Screening (controlled)	
				Emission Factor (handling)	1.53E-05	kg/Mg	2.48E-04	2.48E-05	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
4	C&DMSF (NSA)	Material handling and screening at NSA (daytime)		Handling Capacity	9152	tonnes/day					Provided by CEDD	
				working hours	16	hours					Provided by CEDD	
				Emission Factor (screening)	1.10E-03	kg/Mg	1.75E-01	1.75E-01	g/s	0	AP-42, Table 11.19.2-1, Screening (controlled)	
			TSP	Emission Factor (handling)	2.13E-04	kg/Mg	3.39E-02	3.39E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
				Emission Factor (screening)	3.70E-04	kg/Mg	5.88E-02	5.88E-02	g/s	0	AP-42, Table 11.19.2-1, Screening (controlled)	
				Emission Factor (handling)	1.01E-04	kg/Mg	1.60E-02	1.60E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
			RSP	Emission Factor (screening)	2.50E-05	kg/Mg	3.97E-03	3.97E-03	g/s	0	AP-42, Table 11.19.2-1, Screening (controlled)	
			FSP	Emission Factor (handling)	1.53E-05	kg/Mg	2.43E-03	2.43E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
		Material handling and screening at NSA (nighttime)		Handling Capacity	4576	tonnes/night						Provided by CEDD
				working hours	8	hours						Provided by CEDD
				Emission Factor (screening)	1.10E-03	kg/Mg	1.75E-01	1.75E-01	g/s	0	AP-42, Table 11.19.2-1, Screening (controlled)	
			TSP	Emission Factor (handling)	2.13E-04	kg/Mg	3.39E-02	3.39E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
				Emission Factor (screening)	3.70E-04	kg/Mg	5.88E-02	5.88E-02	g/s	0	AP-42, Table 11.19.2-1, Screening (controlled)	
				Emission Factor (handling)	1.01E-04	kg/Mg	1.60E-02	1.60E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
			RSP	Emission Factor (screening)	2.50E-05	kg/Mg	3.97E-03	3.97E-03	g/s	0	AP-42, Table 11.19.2-1, Screening (controlled)	
			FSP	Emission Factor (handling)	1.53E-05	kg/Mg	2.43E-03	2.43E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
5	Proposed New C&DMCF	Material handling and crushing		Handling Capacity	100	tonnes/hour					Provided by CEDD	
				Emission Factor (crushing)	6.00E-04	kg/Mg	1.67E-02	1.67E-02	g/s	0	AP-42, Table 11.19.2-1, Tertiary Crushing (controlled)	
			TSP	Emission Factor (handling)	2.13E-04	kg/Mg	5.93E-03	5.93E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
				Emission Factor (crushing)	2.70E-04	kg/Mg	7.50E-03	7.50E-03	g/s	0	AP-42, Table 11.19.2-1, Tertiary Crushing (controlled)	
			RSP	Emission Factor (handling)	1.01E-04	kg/Mg	2.80E-03	2.80E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
				Emission Factor (crushing)	5.00E-05	kg/Mg	1.39E-03	1.39E-03	g/s	0	AP-42, Table 11.19.2-1, Tertiary Crushing (controlled)	
			FSP	Emission Factor (handling)	1.53E-05	kg/Mg	4.25E-04	4.25E-05	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
				Emission Factor (crushing)	1.53E-05	kg/Mg	4.25E-04	4.25E-05	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
6	Barging points for importing materials	Material handling at IB1, IB2		Handling rate (per location)	2000	tonnes/day					Provided by CEDD	
				working hours	16	hours					Provided by CEDD	
			TSP	Emission Factor	2.13E-04	kg/Mg	7.41E-03	7.41E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
			RSP	Emission Factor	1.01E-04	kg/Mg	3.50E-03	3.50E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
				Emission Factor	1.53E-05	kg/Mg	5.31E-04	5.31E-05	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	
			FSP	Emission Factor	1.53E-05	kg/Mg	5.31E-04	5.31E-05	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)	

Annex A1 - TSP, RSP and FSP Emission Rate Calculations for Dust Emission Sources within TMFB

Item	Location	Source	Pollutant	Parameters	Value	Unit	Emission Rate				Reference
							Unmitigated	Mitigated	Unit	% Reduction (a)	
7	Barging points for exporting materials	Material handling at B1, B2 (daytime)		Handling rate (per location)	8300	tonnes/day					Provided by CEDD
				working hours	16	hours					Provided by CEDD
			TSP	Emission Factor	2.13E-04	kg/Mg	3.07E-02	3.07E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
			RSP	Emission Factor	1.01E-04	kg/Mg	1.45E-02	1.45E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
			FSP	Emission Factor	1.53E-05	kg/Mg	2.20E-03	2.20E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
		Material handling at B1, B2 (nighttime)		Handling rate (per location)	3750	tonnes/night					Provided by CEDD
				working hours	8	hours					Provided by CEDD
			TSP	Emission Factor	2.13E-04	kg/Mg	2.78E-02	2.78E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
			RSP	Emission Factor	1.01E-04	kg/Mg	1.31E-02	1.31E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
			FSP	Emission Factor	1.53E-05	kg/Mg	1.99E-03	1.99E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
		Material handling at B3 (daytime)		Handling rate (per location)	9152	tonnes/day					Provided by CEDD
				working hours	16	hours					Provided by CEDD
			TSP	Emission Factor	2.13E-04	kg/Mg	3.39E-02	3.39E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
			RSP	Emission Factor	1.01E-04	kg/Mg	1.60E-02	1.60E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
			FSP	Emission Factor	1.53E-05	kg/Mg	2.43E-03	2.43E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
		Material handling at B3 (nighttime)		Handling rate (per location)	4576	tonnes/night					Provided by CEDD
				working hours	8	hours					Provided by CEDD
			TSP	Emission Factor	2.13E-04	kg/Mg	3.39E-02	3.39E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
			RSP	Emission Factor	1.01E-04	kg/Mg	1.60E-02	1.60E-03	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
			FSP	Emission Factor	1.53E-05	kg/Mg	2.43E-03	2.43E-04	g/s	90	AP-42, Section 13.2.4 (Edition 11/06)
8	Truck movement haul roads	R1, R2, R3, R4, R5, R6		Truck Quantity	2660	truck/day					Provided by CEDD
				working hours	10.5	hours					Provided by CEDD
			TSP	Emission Factor	192.07871	g/vkt	1.35E-02	1.12E-03	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			RSP	Emission Factor	36.869597	g/vkt	2.59E-03	2.15E-04	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9200637	g/vkt	6.28E-04	5.21E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
		R7		Truck Quantity	2640	truck/day					Provided by CEDD
				working hours	10.5	hours					Provided by CEDD
			TSP	Emission Factor	192.07871	g/vkt	1.34E-02	1.11E-03	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			RSP	Emission Factor	36.869597	g/vkt	2.58E-03	2.14E-04	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9200637	g/vkt	6.23E-04	5.17E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
		R8 (daytime)		Truck Quantity	2100	truck/day					Provided by CEDD
				working hours	16	hours					Provided by CEDD
			TSP	Emission Factor	192.07871	g/vkt	7.00E-03	5.81E-04	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			RSP	Emission Factor	36.869597	g/vkt	1.34E-03	1.12E-04	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9200637	g/vkt	3.25E-04	2.70E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
		R8 (nighttime)		Truck Quantity	1050	truck/night					Provided by CEDD
				working hours	8	hours					Provided by CEDD
			TSP	Emission Factor	192.07871	g/vkt	7.00E-03	5.81E-04	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			RSP	Emission Factor	36.869597	g/vkt	1.34E-03	1.12E-04	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9200637	g/vkt	3.25E-04	2.70E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
		R9		Truck Quantity	20	truck/day					Provided by CEDD
				working hours	10.5	hours					Provided by CEDD
			TSP	Emission Factor	192.07871	g/vkt	1.02E-04	8.44E-06	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			RSP	Emission Factor	36.869597	g/vkt	1.95E-05	1.62E-06	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9200637	g/vkt	4.72E-06	3.92E-07	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
		R11 (daytime)		Truck Quantity	1280	truck/day					Provided by CEDD
				working hours	16	hours					Provided by CEDD
			TSP	Emission Factor	192.07871	g/vkt	4.27E-03	3.54E-04	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			RSP	Emission Factor	36.869597	g/vkt	8.19E-04	6.80E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9200637	g/vkt	1.98E-04	1.65E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)

Annex A1 - TSP, RSP and FSP Emission Rate Calculations for Dust Emission Sources within TMFB

Item	Location	Source	Pollutant	Parameters	Value	Unit	Emission Rate				Reference
							Unmitigated	Mitigated	Unit	% Reduction (a)	
		R11 (nighttime)		Truck Quantity	640	truck/day					Provided by CEDD
				working hours	8	hours					Provided by CEDD
			TSP	Emission Factor	192.07871	g/vkt	4.27E-03	3.54E-04	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			RSP	Emission Factor	36.869597	g/vkt	8.19E-04	6.80E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9200637	g/vkt	1.98E-04	1.65E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
		R14, R15, R17 (daytime)		Truck Quantity	1178	truck/day					Provided by CEDD
				working hours	16	hours					Provided by CEDD
			TSP	Emission Factor	192.07871	g/vkt	3.93E-03	3.26E-04	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			RSP	Emission Factor	36.869597	g/vkt	7.54E-04	6.26E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9200637	g/vkt	1.82E-04	1.51E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
		R14, R15, R17 (nighttime)		Truck Quantity	525	truck/night					Provided by CEDD
				working hours	8	hours					Provided by CEDD
			TSP	Emission Factor	192.07871	g/vkt	3.50E-03	2.91E-04	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			RSP	Emission Factor	36.869597	g/vkt	6.72E-04	5.58E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9200637	g/vkt	1.63E-04	1.35E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
		R18, R19, R20, R21		Truck Quantity	128	truck/day					Provided by CEDD
				working hours	16	hours					Provided by CEDD
			TSP	Emission Factor	192.07871	g/vkt	4.27E-04	3.54E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			RSP	Emission Factor	36.869597	g/vkt	8.19E-05	6.80E-06	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9200637	g/vkt	1.98E-05	1.65E-06	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
		R22		Truck Quantity	256	truck/day					Provided by CEDD
				working hours	16	hours					Provided by CEDD
			TSP	Emission Factor	192.07871	g/vkt	8.54E-04	7.09E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			RSP	Emission Factor	36.869597	g/vkt	1.64E-04	1.36E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
			FSP	Emission Factor	8.9200637	g/vkt	3.96E-05	3.29E-06	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
		R25, R26, R27, R28		Truck Quantity	200	truck/day					Provided by CEDD
				working hours	12	hours					Provided by CEDD
			TSP	Emission Factor	192.07871	g/vkt	8.89E-04	7.38E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)
RSP	Emission Factor		36.869597	g/vkt	1.71E-04	1.42E-05	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)		
FSP	Emission Factor		8.9200637	g/vkt	4.13E-05	3.43E-06	g/m/s	91.7	AP42 Section 13.2.1 (Edition 1/11)		

Note:

(a) Watering once every hour during working hours. It is assumed that 91.7% dust suppression efficiency can be achieved by watering frequency of once every hour for dust emissions from wind erosion and haul roads with reference to USEPA's Control of Open Fugitive Dust Sources (EPA-450/3-98-008).

$$C = 100 - 0.8pdt / i$$

$$= 100 - 0.8 \times 0.2368 \times 155 \times 1 / 3.54 = 91.7\%$$

where:

C = percentage of efficiency, %

p = potential average hourly daytime evaporation rate, mm/hr = 0.0049 x 48.32 inches = 0.2368

Evaporation recorded at King's Park between 1981 to 2010 is 1227.3mm (48.32 inches). (http://www.hko.gov.hk/cis/monthlyElement_e.htm?ele=EVAP0)

d = average hourly daytime traffic rate, in vehicles per hour = 155

t = time between application of watering, hr = 1 (i.e. once every hour)

i = application intensity, L/m² = 3.54

(b) Application of water at material handling (loading and unloading) locations can reduce dust emissions by 90% with reference to AP-42, 5th Edition, Vol 1, Chapter 11 (Mineral Products Industry), Section 11.19.1.2 (Emissions and Controls).

Annex A1 - TSP, RSP and FSP Emission Inventory for Dust Emission Sources within TMFB

Source ID	Description	Source Type	Coordinates		Dimension/Coordinates		Base Elevation	Height	Angle/Width	Working Hour (a)	TSP Emission Rate		RSP Emission Rate		FSP Emission Rate		
			X1	Y1	X2	Y2					Working Hours	Non-working Hours / Nighttime Working Hours	Working Hours	Non-working Hours / Nighttime Working Hours	Working Hours	Non-working Hours / Nighttime Working Hours	
			m	m	m	m					m	m	deg / m	g/m2/s	g/m2/s	g/m2/s	g/m2/s
A001	Wind erosion	Polygon Area	811209.5	825399.6				5	15		0800-1900	2.24E-07	2.70E-06	1.06E-07	1.27E-06	1.60E-08	1.93E-07
			811114.9	825205.4													
			811241.7	825169.2													
			811195.4	825072.0													
			811075.5	824890.2													
			811052.9	824902.7													
			810815.3	825064.7													
			810945.7	825233.7													
A002	Wind erosion	Polygon Area	811362.8	825421.5				5	15		0800-1900	2.24E-07	2.70E-06	1.06E-07	1.27E-06	1.60E-08	1.93E-07
			811241.7	825169.2													
			811114.9	825205.4													
			811209.5	825399.6													
			811137.1	825442.7													
			811207.0	825494.2													
A003	Wind erosion	Area	811092.5	824888.4	78.6	169.5		5	0.5	33.45	24 hours	2.70E-06	2.70E-06	1.27E-06	1.27E-06	1.93E-07	1.93E-07
SP3a	Material Handling	Area	811069.7	825108.6	10	10		5	20	0	0830-1900	1.05E-04	0.00E+00	4.96E-05	0.00E+00	7.52E-06	0.00E+00
SP3b	Material Handling	Area	811046.5	825108.2	10	10		5	0.5	0	0700-2300 (daytime) 2300-0700 (nighttime)	5.56E-05	5.56E-05	2.63E-05	2.63E-05	3.98E-06	3.98E-06
SP3c	Material Handling	Area	811232.8	825217.3	10	10		5	30	0	0830-1900	8.07E-07	0.00E+00	3.82E-07	0.00E+00	5.78E-08	0.00E+00
SP3d	Material Handling	Area	810991.5	825201.1	10	10		5	0.5	0	0700-2300 (daytime) 2300-0700 (nighttime)	3.39E-05	3.39E-05	1.60E-05	1.60E-05	2.43E-06	2.43E-06
SP3e	Material Handling	Area	811217.6	825200.0	10	10		5	15	90	0700-2300	2.96E-06	0.00E+00	1.40E-06	0.00E+00	2.12E-07	0.00E+00
SP3f	Material Handling	Area	811065.3	824990.6	10	10		5	10	90	0700-2300	2.96E-06	0.00E+00	1.40E-06	0.00E+00	2.12E-07	0.00E+00
C&DMSF_S	Material Screening	Area	811165.8	824903.1	10	10		5	5	0	0800-2000	1.78E-04	0.00E+00	6.00E-05	0.00E+00	4.05E-06	0.00E+00
C&DMSF_H	Material Handling	Area	811165.8	824903.1	10	10		5	0.5	0	0800-2000	3.46E-06	0.00E+00	1.64E-06	0.00E+00	2.48E-07	0.00E+00
NSA_S	Material Screening	Area	810860.3	825087.9	10	10		5	5	0	0700-2300 (daytime) 2300-0700 (nighttime)	1.75E-03	1.75E-03	5.88E-04	5.88E-04	3.97E-05	3.97E-05
NSA_H	Material Handling	Area	810860.3	825087.9	10	10		5	0.5	0	0700-2300 (daytime) 2300-0700 (nighttime)	3.39E-05	3.39E-05	1.60E-05	1.60E-05	2.43E-06	2.43E-06
C&DMCF_C	Material Crushing	Area	811192.7	825061.7	10	10		5	10	90	0700-2300	1.67E-04	0.00E+00	7.50E-05	0.00E+00	1.39E-05	0.00E+00
C&DMCF_H	Material Handling	Area	811192.7	825061.7	10	10		5	10	90	0700-2300	5.93E-06	0.00E+00	2.80E-06	0.00E+00	4.25E-07	0.00E+00

Annex A1 - TSP, RSP and FSP Emission Inventory for Dust Emission Sources within TMFB

Source ID	Description	Source Type	Coordinates		Dimension/ Coordinates		Base Elevation	Height	Angle/ Width	Working Hour (^a)	TSP Emission Rate		RSP Emission Rate		FSP Emission Rate	
			X1	Y1	X2	Y2					Working Hours	Non-working Hours / Nighttime Working Hours	Working Hours	Non-working Hours / Nighttime Working Hours	Working Hours	Non-working Hours / Nighttime Working Hours
			m	m	m	m					m	m	deg / m	g/m2/s	g/m2/s	g/m2/s
IB1	Material Handling	Area	810853.6	824979.3	10	10	5	0.5	124.37	0700-2300	7.41E-06	0.00E+00	3.50E-06	0.00E+00	5.31E-07	0.00E+00
IB2	Material Handling	Area	810989.7	824887.2	10	10	5	0.5	124.37	0700-2300	7.41E-06	0.00E+00	3.50E-06	0.00E+00	5.31E-07	0.00E+00
B1	Material Handling	Area	811057.5	824841.8	10	10	5	0.5	124.37	0700-2300 (daytime) 2300-0700 (nighttime)	3.07E-05	2.78E-05	1.45E-05	1.31E-05	2.20E-06	1.99E-06
B2	Material Handling	Area	810921.9	824932.6	10	10	5	0.5	124.37	0700-2300 (daytime) 2300-0700 (nighttime)	3.07E-05	2.78E-05	1.45E-05	1.31E-05	2.20E-06	1.99E-06
B3	Material Handling	Area	810785.3	825025.9	10	10	5	0.5	124.37	0700-2300 (daytime) 2300-0700 (nighttime)	3.39E-05	3.39E-05	1.60E-05	1.60E-05	2.43E-06	2.43E-06
R1	Road dust	Area	811291.1	825571.1	8	67.67	5	0.5	65	0830-1900	1.40E-04	0.00E+00	2.69E-05	0.00E+00	6.51E-06	0.00E+00
R2	Road dust	Area	811183.1	825621.3	8	122	5	0.5	114	0830-1900	1.40E-04	0.00E+00	2.69E-05	0.00E+00	6.51E-06	0.00E+00
R3	Road dust	Area	811088.2	825614.2	8	93.05	5	0.5	85	0830-1900	1.40E-04	0.00E+00	2.69E-05	0.00E+00	6.51E-06	0.00E+00
R4	Road dust	Area	811092.5	825610.7	8	149	5	0.5	174	0830-1900	1.40E-04	0.00E+00	2.69E-05	0.00E+00	6.51E-06	0.00E+00
R5	Road dust	Area	811105.7	825466.1	8	123.1	5	10	120.7802	0830-1900	1.40E-04	0.00E+00	2.69E-05	0.00E+00	6.51E-06	0.00E+00
R6	Road dust	Area	811111.3	825207.1	8	216.7	5	20	25.9608	0830-1900	1.40E-04	0.00E+00	2.69E-05	0.00E+00	6.51E-06	0.00E+00
R7	Road dust	Area	811069.3	825120.8	8	96.33	5	20	25.9608	0830-1900	1.39E-04	0.00E+00	2.67E-05	0.00E+00	6.46E-06	0.00E+00
R8	Road dust	Area	810950.4	824972.6	8	173.14	5	0.5	35	0700-2300 (daytime) 2300-0700 (nighttime)	7.27E-05	7.27E-05	1.39E-05	1.39E-05	3.37E-06	3.37E-06
R9	Road dust	Area	811116.0	825209.2	8	131.7	5	30	105.9422	0830-1900	1.05E-06	0.00E+00	2.02E-07	0.00E+00	4.90E-08	0.00E+00
R11	Road dust	Area	810897.5	825096.4	8	140.4686	5	0.5	38	0700-2300 (daytime) 2300-0700 (nighttime)	4.43E-05	4.43E-05	8.50E-06	8.50E-06	2.06E-06	2.06E-06
R14	Road dust	Area	810922.7	824932.1	8	49.07642	5	0.5	35	0700-2300 (daytime) 2300-0700 (nighttime)	4.08E-05	3.63E-05	7.82E-06	6.97E-06	1.89E-06	1.69E-06
R15	Road dust	Area	811058.3	824841.3	8	50.3578	5	0.5	35	0700-2300 (daytime) 2300-0700 (nighttime)	4.08E-05	3.63E-05	7.82E-06	6.97E-06	1.89E-06	1.69E-06
R17	Road dust	Area	810955.9	824973.7	8	163.201	5	0.5	123	0700-2300 (daytime) 2300-0700 (nighttime)	4.08E-05	3.63E-05	7.82E-06	6.97E-06	1.89E-06	1.69E-06

Annex A1 - TSP, RSP and FSP Emission Inventory for Dust Emission Sources within TMFB

Source ID	Description	Source Type	Coordinates		Dimension/ Coordinates		Base Elevation	Height	Angle/ Width	Working Hour (a)	TSP Emission Rate		RSP Emission Rate		FSP Emission Rate	
			X1	Y1	X2	Y2					Working Hours	Non-working Hours / Nighttime Working Hours	Working Hours	Non-working Hours / Nighttime Working Hours	Working Hours	Non-working Hours / Nighttime Working Hours
			m	m	m	m					m	m	deg / m	g/m2/s	g/m2/s	g/m2/s
R18	Road dust	Area	811229.2	825194.0	8	41.87426	5	10	114.5278	0700-2300	4.43E-06	0.00E+00	8.50E-07	0.00E+00	2.06E-07	0.00E+00
R19	Road dust	Area	811194.5	825059.0	8	134.2315	5	5	30.1578	0700-2300	4.43E-06	0.00E+00	8.50E-07	0.00E+00	2.06E-07	0.00E+00
R20	Road dust	Area	811077.2	824983.7	8	49.95577	5	5	122.0265	0700-2300	4.43E-06	0.00E+00	8.50E-07	0.00E+00	2.06E-07	0.00E+00
R21	Road dust	Area	811114.1	824956.0	8	127.2184	5	5	33.4836	0700-2300	4.43E-06	0.00E+00	8.50E-07	0.00E+00	2.06E-07	0.00E+00
R22	Road dust	Area	811077.2	824889.1	8	206.7675	5	0.5	34.6216	0700-2300	8.86E-06	0.00E+00	1.70E-06	0.00E+00	4.11E-07	0.00E+00
R25	Road dust	Area	811175.0	824926.1	8	64.56	5	0.5	27	0800-2000	9.23E-06	0.00E+00	1.77E-06	0.00E+00	4.28E-07	0.00E+00
R26	Road dust	Area	811210.1	824984.9	8	38.37	5	0.5	117	0800-2000	9.23E-06	0.00E+00	1.77E-06	0.00E+00	4.28E-07	0.00E+00
R27	Road dust	Area	811238.6	824965.2	8	291	5	0.5	22	0800-2000	9.23E-06	0.00E+00	1.77E-06	0.00E+00	4.28E-07	0.00E+00
R28	Road dust	Area	811349.8	825234.0	8	355.3	5	0.5	22	0800-2000	9.23E-06	0.00E+00	1.77E-06	0.00E+00	4.28E-07	0.00E+00

Note:

(a) TMFB is operational on all days

(b) Dry deposition was considered for fugitive dust sources (i.e. wind erosion, material handling/screening/crushing and haul roads) based on the particle size distributions of the respective dust sources.

(c) The highest point of the stockpiling areas A001 and A002 is approximately 30m. On average, the height of the stockpiling areas A001 and A002 was assumed to be 15m which was adopted in the model.

Annex A1 - Mass Fractions of Particle Sizes for Dust Sources

Material Handling and Wind Erosion

Particle Size (µm)	Average Particle Size (µm)	Mass Fraction		
		TSP	RSP	FSP
2.5	1.25	0.07	0.15	1
5	3.75	0.2	0.42	-
10	7.5	0.2	0.43	-
15	12.5	0.18	-	-
30	22.5	0.35	-	-

Reference: AP-42, Section 13.2.4 (Edition 11/06)

Material Crushing

Particle Size (µm)	Average Particle Size (µm)	Mass Fraction		
		TSP	RSP	FSP
2.5	1.25	0.08	0.19	1
10	6.25	0.37	0.81	-
30	20	0.55	-	-

Reference: AP-42, Table 11.19.2-1, Tertiary Crushing (controlled)

Material Screening

Particle Size (µm)	Average Particle Size (µm)	Mass Fraction		
		TSP	RSP	FSP
2.5	1.25	0.02	0.07	1
10	6.25	0.31	0.93	-
30	20	0.67	-	-

Reference: AP-42, Table 11.19.2-1, Screening (controlled)

Haul Road

Particle Size (µm)	Average Particle Size (µm)	Mass Fraction		
		TSP	RSP	FSP
2.5	1.25	0.04	0.24	1
10	6.25	0.15	0.76	-
15	12.5	0.05	-	-
30	22.5	0.76	-	-

Reference: AP-42 Section 13.2.1 (Edition 1/11)

Annex A1 - NOx, SO2, RSP and FSP Emission Rate Calculations for Marine Vessels

Item	Source	Pollutant	Parameters	Value	Unit	Emission Rate	Unit	Reference
1	Berthing emissions from Barge		Average Auxiliary Engine Power (Barge)	50	kW			Provided by CEDD
			Auxiliary Engine Load factor	0.43				Table 4.10, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		NOx	Emission Factor	10	g/kWh	2.15E+02	g/hr/vessel	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		SO2	Emission Factor	0.208	g/kWh	4.47E+00	g/hr/vessel	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD Fuel for local vessels in Hong Kong has sulphur content limited to 0.05% under the Air Pollution Control (Marine Light Diesel) Regulation
		RSP	Emission Factor	0.4	g/kWh	8.60E+00	g/hr/vessel	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		FSP	Emission Factor	0.39	g/kWh	8.39E+00	g/hr/vessel	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
2	Berthing emissions from Derrick Lighter		Average Auxiliary Engine Power (Derrick Lighter)	270	kW			Provided by CEDD
			Auxiliary Engine Load factor	0.43				Table 4.10, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		NOx	Emission Factor	10	g/kWh	1.16E+03	g/hr/vessel	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		SO2	Emission Factor	0.208	g/kWh	2.41E+01	g/hr/vessel	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD Fuel for local vessels in Hong Kong has sulphur content limited to 0.05% under the Air Pollution Control (Marine Light Diesel) Regulation
		RSP	Emission Factor	0.4	g/kWh	4.64E+01	g/hr/vessel	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		FSP	Emission Factor	0.39	g/kWh	4.53E+01	g/hr/vessel	Table 4.16, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
3	Maneuvering (Barge)		Average Main Engine Power (Barge)	1100	kW			Provided by CEDD
			Main Engine Load factor	0.3				Table 4.7, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		NOx	Emission Factor	10	g/kWh	3.30E+03	g/hr/vessel	Table 4.16, Main Engine (Cat.1), Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		SO2	Emission Factor	0.208	g/kWh	6.86E+01	g/hr/vessel	Table 4.16, Main Engine (Cat.1), Study on Marine Vessels Emission Inventory Final Report 2012, EPD Fuel for local vessels in Hong Kong has sulphur content limited to 0.05% under the Air Pollution Control (Marine Light Diesel) Regulation
		RSP	Emission Factor	0.3	g/kWh	9.90E+01	g/hr/vessel	Table 4.16, Main Engine (Cat.1), Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		FSP	Emission Factor	0.29	g/kWh	9.57E+01	g/hr/vessel	Table 4.16, Main Engine (Cat.1), Study on Marine Vessels Emission Inventory Final Report 2012, EPD
4	Maneuvering (Tugboat)		Average Main Engine Power (tugboat)	392	kW			Provided by CEDD
			Main Engine Load factor	0.3				Table 4.7, Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		NOx	Emission Factor	13.2	g/kWh	1.55E+03	g/hr/vessel	Table 4.16, Main Engine (Cat.2), Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		SO2	Emission Factor	0.208	g/kWh	2.45E+01	g/hr/vessel	Table 4.16, Main Engine (Cat.2), Study on Marine Vessels Emission Inventory Final Report 2012, EPD Fuel for local vessels in Hong Kong has sulphur content limited to 0.05% under the Air Pollution Control (Marine Light Diesel) Regulation
		RSP	Emission Factor	0.72	g/kWh	8.47E+01	g/hr/vessel	Table 4.16, Main Engine (Cat.2), Study on Marine Vessels Emission Inventory Final Report 2012, EPD
		FSP	Emission Factor	0.7	g/kWh	8.23E+01	g/hr/vessel	Table 4.16, Main Engine (Cat.2), Study on Marine Vessels Emission Inventory Final Report 2012, EPD

Annex A1 - NOx, SO2, RSP and FSP Emission Rate Calculations for Marine Vessels (for assessment except annual NO2)

Berthing

	Time-in-mode ⁽¹⁾ (hr)	Daily Flow ⁽²⁾	Working Hour	Type of Vessel ⁽³⁾	NOx			SO2			RSP			FSP		
					Emission Rate (g/hr/vessel)	Emission Rate (g/s)	AERMOD input hour	Emission Rate (g/hr/vessel)	Emission Rate (g/s)	AERMOD input hour	Emission Rate (g/hr/vessel)	Emission Rate (g/s)	AERMOD input hour	Emission Rate (g/hr/vessel)	Emission Rate (g/s)	AERMOD input hour
B1_B B2_B B3_B	4	3	0700 - 2300	Barge	2.15E+02	4.48E-02	0700 - 2300	4.47E+00	9.32E-04	0700 - 2300	8.60E+00	1.79E-03	0700 - 2300	8.39E+00	1.75E-03	0700 - 2300
B1_B B2_B B3_B	4	2	2300 - 0700	Barge	2.15E+02	5.97E-02	2300 - 0700	4.47E+00	1.24E-03	2300 - 0700	8.60E+00	2.39E-03	2300 - 0700	8.39E+00	2.33E-03	2300 - 0700
IB1_B IB2_B	4	1	0700 - 2300	Derrick Lighter	1.16E+03	8.06E-02	0700 - 2300	2.41E+01	1.68E-03	0700 - 2300	4.64E+01	3.23E-03	0700 - 2300	4.53E+01	3.14E-03	0700 - 2300
B	4	1	0700 - 2300	Derrick Lighter	1.16E+03	8.06E-02	0700 - 2300	2.41E+01	1.68E-03	0700 - 2300	4.64E+01	3.23E-03	0700 - 2300	4.53E+01	3.14E-03	0700 - 2300

Maneuvering

	Time-in-mode ⁽¹⁾ (hr)	Daily Flow ⁽²⁾	Working Hour	Type of Vessel ⁽³⁾	NOx			SO2			RSP			FSP		
					Emission Rate (g/hr/vessel)	Emission Rate (g/s)	AERMOD input hour	Emission Rate (g/hr/vessel)	Emission Rate (g/s)	AERMOD input hour	Emission Rate (g/hr/vessel)	Emission Rate (g/s)	AERMOD input hour	Emission Rate (g/hr/vessel)	Emission Rate (g/s)	AERMOD input hour
from IB1 - IB2	0.25	4	0700 - 2300	Tugboat	1.55E+03	2.70E-02		2.45E+01	4.25E-04		8.47E+01	1.47E-03		8.23E+01	1.43E-03	
M1-M35						7.70E-04	0700 - 2300		1.21E-05	0700 - 2300		4.20E-05	0700 - 2300		4.08E-05	0700 - 2300
from B1 - B3	0.25	18	0700 - 2300	Barge	3.30E+03	2.58E-01		6.86E+01	5.36E-03		9.90E+01	7.73E-03		9.57E+01	7.48E-03	
from B1 - B3	0.25	12	2300 - 0700	Barge	3.30E+03	3.44E-01		6.86E+01	7.15E-03		9.90E+01	1.03E-02		9.57E+01	9.97E-03	
M36-M71						7.16E-03	0700 - 2300		1.49E-04	0700 - 2300		2.15E-04	0700 - 2300		2.08E-04	0700 - 2300
M36-M71						9.55E-03	2300 - 0700		1.99E-04	2300 - 0700		2.86E-04	2300 - 0700		2.77E-04	2300 - 0700
from B	0.25	2	0700 - 2300	Tugboat	1.55E+03	1.35E-02		2.45E+01	2.12E-04		8.47E+01	7.35E-04		8.23E+01	7.15E-04	
C1-C39						3.46E-04	0700 - 2300		5.44E-06	0700 - 2300		1.88E-05	0700 - 2300		1.83E-05	0700 - 2300

Notes:

- (1) Time-in-mode for berthing refers to the berthing time at barging point and is assumed to be 4 hours.
Time-in-mode for maneuvering refers to the maneuvering time within the Study Area and is assumed to be 15 minutes for routes M1-M35, M36-71 & C1-C39.
Time-in-mode has been confirmed with CEDD.
- (2) Daily flow for berthing refers to number of vessel at berth at each barging point each day.
Daily flow for maneuvering refers to the number of trips of vessel arriving and departing (two-way trip) at all relevant barging points.
Daily flow has been confirmed with CEDD.
- (3) Barges were assumed for material export at barging points B1 to B3.
Derrick lighter (at berth) and tugboat (maneuvering) were assumed for material import at barging points IB1 and IB2.

Derrick lighter (at berth) and tugboat (maneuvering) were assumed for material transport at barging point B. As advised by CEDD, barging point B may be used for bridge segment storage by the Development of Kwu Tung North and Fanling North Project tentatively from 2020 to 2023.
- (4) During the operation of the proposed site crusher, the number of barges for material export remain the same as assumed in the First Annual AQIA Review Report for TMFB and would not increase.

Annex A1 - NOx, SO2, RSP and FSP Emission Rate Calculations for Marine Vessels (for annual NO₂ assessment)

Berthing

	Time-in-mode ⁽¹⁾ (hr)	Daily Flow ⁽²⁾	Working Hour	Type of Vessel ⁽³⁾	NOx		
					Emission Rate (g/hr/vessel)	Emission Rate (g/s)	AERMOD input hour
B1_B B2_B B3_B	4	3	0700 - 2300	Barge	2.15E+02	4.48E-02	0700 - 2300
B1_B B2_B B3_B	4	2	2300 - 0700	Barge	2.15E+02	5.97E-02	2300 - 0700
IB1_B IB2_B	4	0.03	0700 - 2300	Derrick Lighter	1.16E+03	2.42E-03	0700 - 2300
B	4	0.28	0700 - 2300	Derrick Lighter	1.16E+03	2.30E-02	0700 - 2300

Maneuvering

	Time-in-mode ⁽¹⁾ (hr)	Daily Flow ⁽²⁾	Working Hour	Type of Vessel ⁽³⁾	NOx		
					Emission Rate (g/hr/vessel)	Emission Rate (g/s)	AERMOD input hour
from IB1 - IB2	0.25	0.12	0700 - 2300	Tugboat	1.55E+03	8.09E-04	
M1-M35						2.31E-05	0700 - 2300
from B1 - B3	0.25	18	0700 - 2300	Barge	3.30E+03	2.58E-01	
from B1 - B3	0.25	12	2300 - 0700	Barge	3.30E+03	3.44E-01	
M36-M71						7.16E-03	0700 - 2300
M36-M71						9.55E-03	2300 - 0700
from B	0.25	0.57	0700 - 2300	Tugboat	1.55E+03	3.84E-03	
C1-C39						9.84E-05	0700 - 2300

Notes:

- (1) Time-in-mode for berthing refers to the berthing time at barging point and is assumed to be 4 hours.
Time-in-mode for maneuvering refers to the maneuvering time within the Study Area and is assumed to be 15 minutes for routes M1-M35, M36-71 & C1-C39.
Time-in-mode has been confirmed with CEDD.
- (2) Daily flow for berthing refers to number of vessel at berth at each barging point each day.
Daily flow for maneuvering refers to the number of trips of vessel arriving and departing (two-way trip) at all relevant barging points.
As advised by CEDD, material import at each barging point (IB1 or IB2) accounts for 3% of the time on average annually.
As advised by CEDD, material transport at barging point B was assumed to be 2 times/week during the period of 0700-2300.
- (3) Barges were assumed for material export at barging points B1 to B3.
Derick lighter (at berth) and tugboat (maneuvering) were assumed for material import at barging points IB1 and IB2.
Derick lighter (at berth) and tugboat (maneuvering) were assumed for material transport at barging point B. As advised by CEDD, barging point B may be used for bridge segment storage by the Development of Kwu Tung North and Fanling North Project tentatively from 2020 to 2023.
- (4) During the operation of the proposed site crusher, the number of barges for material export remain the same as assumed in the First Annual AQIA Review Report for TMFB and would not increase.

Annex A1 - Emission Inventory for Marine Vessels (for assessment except annual NO₂)

Source ID	Description	Source Type	Coordinates		Base Elevation	Height	Stack Temp	Stack Velocity	Stack Diameter	Working Hour	NOx Emission Rate		SO2 Emission Rate		RSP Emission Rate		FSP Emission Rate	
			X1	Y1							0700 - 2300	2300 - 0700	0700 - 2300	2300 - 0700	0700 - 2300	2300 - 0700	0700 - 2300	2300 - 0700
			m	m							g/s	g/s	g/s	g/s	g/s	g/s	g/s	g/s
B1_B	Berthing	Point	811058.8	824834.9	0	15	803	8	0.3	24 hours	4.48E-02	5.97E-02	9.32E-04	1.24E-03	1.79E-03	2.39E-03	1.75E-03	2.33E-03
B2_B	Berthing	Point	810923.2	824925.7	0	15	803	8	0.3	24 hours	4.48E-02	5.97E-02	9.32E-04	1.24E-03	1.79E-03	2.39E-03	1.75E-03	2.33E-03
B3_B	Berthing	Point	810786.6	825019.0	0	15	803	8	0.3	24 hours	4.48E-02	5.97E-02	9.32E-04	1.24E-03	1.79E-03	2.39E-03	1.75E-03	2.33E-03
IB1_B	Berthing	Point	810853.6	824979.3	0	9	795	8	0.15	0700-2300	8.06E-02	0.00E+00	1.68E-03	0.00E+00	3.23E-03	0.00E+00	3.14E-03	0.00E+00
IB2_B	Berthing	Point	810989.7	824887.2	0	9	795	8	0.15	0700-2300	8.06E-02	0.00E+00	1.68E-03	0.00E+00	3.23E-03	0.00E+00	3.14E-03	0.00E+00
B	Berthing	Point	811124.7	824794.9	0	9	795	8	0.15	0700-2300	8.06E-02	0.00E+00	1.68E-03	0.00E+00	3.23E-03	0.00E+00	3.14E-03	0.00E+00
M1	Maneuvering	Point	810906.9	824905.6	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M2	Maneuvering	Point	810900.1	824885.7	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M3	Maneuvering	Point	810894.3	824865.9	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M4	Maneuvering	Point	810891.9	824845.1	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M5	Maneuvering	Point	810890.9	824824.4	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M6	Maneuvering	Point	810890.9	824803.4	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M7	Maneuvering	Point	810892.0	824782.8	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M8	Maneuvering	Point	810896.1	824762.3	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M9	Maneuvering	Point	810900.2	824742.0	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M10	Maneuvering	Point	810908.8	824722.8	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M11	Maneuvering	Point	810917.5	824703.7	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M12	Maneuvering	Point	810926.1	824684.9	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M13	Maneuvering	Point	810936.2	824666.4	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M14	Maneuvering	Point	810946.2	824648.0	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M15	Maneuvering	Point	810957.0	824630.3	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M16	Maneuvering	Point	810968.6	824612.9	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M17	Maneuvering	Point	810980.3	824595.4	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M18	Maneuvering	Point	810991.9	824578.3	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M19	Maneuvering	Point	811004.6	824561.5	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M20	Maneuvering	Point	811017.2	824544.8	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M21	Maneuvering	Point	811030.0	824528.5	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M22	Maneuvering	Point	811044.0	824512.9	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M23	Maneuvering	Point	811058.1	824497.2	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M24	Maneuvering	Point	811072.1	824481.6	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M25	Maneuvering	Point	811086.6	824466.9	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M26	Maneuvering	Point	811101.5	824452.1	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M27	Maneuvering	Point	811116.3	824437.2	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M28	Maneuvering	Point	811131.1	824422.7	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M29	Maneuvering	Point	811146.2	824408.1	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M30	Maneuvering	Point	811161.2	824393.5	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M31	Maneuvering	Point	811176.3	824379.2	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M32	Maneuvering	Point	811191.6	824364.9	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M33	Maneuvering	Point	811206.8	824350.8	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M34	Maneuvering	Point	811222.8	824337.2	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M35	Maneuvering	Point	811237.7	824324.5	0	9	795	8	0.15	0700-2300	7.70E-04	0.00E+00	1.21E-05	0.00E+00	4.20E-05	0.00E+00	4.08E-05	0.00E+00
M36	Maneuvering	Point	810906.9	824905.6	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03	1.49E-04	1.99E-04	2.15E-04	2.86E-04	2.08E-04	2.77E-04
M37	Maneuvering	Point	810890.9	824892.0	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03	1.49E-04	1.99E-04	2.15E-04	2.86E-04	2.08E-04	2.77E-04
M38	Maneuvering	Point	810873.5	824881.4	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03	1.49E-04	1.99E-04	2.15E-04	2.86E-04	2.08E-04	2.77E-04
M39	Maneuvering	Point	810853.9	824873.9	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03	1.49E-04	1.99E-04	2.15E-04	2.86E-04	2.08E-04	2.77E-04
M40	Maneuvering	Point	810833.7	824869.4	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03	1.49E-04	1.99E-04	2.15E-04	2.86E-04	2.08E-04	2.77E-04
M41	Maneuvering	Point	810813.0	824865.9	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03	1.49E-04	1.99E-04	2.15E-04	2.86E-04	2.08E-04	2.77E-04
M42	Maneuvering	Point	810792.4	824864.8	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03	1.49E-04	1.99E-04	2.15E-04	2.86E-04	2.08E-04	2.77E-04
M43	Maneuvering	Point	810771.4	824864.2	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03	1.49E-04	1.99E-04	2.15E-04	2.86E-04	2.08E-04	2.77E-04
M44	Maneuvering	Point	810750.7	824863.6	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03	1.49E-04	1.99E-04	2.15E-04	2.86E-04	2.08E-04	2.77E-04
M45	Maneuvering	Point	810729.7	824863.2	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03	1.49E-04	1.99E-04	2.15E-04	2.86E-04	2.08E-04	2.77E-04
M46	Maneuvering	Point	810708.7	824862.7	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03	1.49E-04	1.99E-04	2.15E-04	2.86E-04	2.08E-04	2.77E-04
M47	Maneuvering	Point	810687.7	824862.2	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03	1.49E-04	1.99E-04	2.15E-04	2.86E-04	2.08E-04	2.77E-04
M48	Maneuvering	Point	810667.0	824862.5	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03	1.49E-04	1.99E-04	2.15E-04	2.86E-04	2.08E-04	2.77E-04
M49	Maneuvering	Point	810646.0	824863.0	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03	1.49E-04	1.99E-04	2.15E-04	2.86E-04	2.08E-04	2.77E-04
M50	Maneuvering	Point	810625.0	824863.6	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03	1.49E-04	1.99E-04	2.15E-04	2.86E-04	2.08E-04	2.77E-04
M51	Maneuvering	Point	810604.3	824864.0	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03	1.49E-04	1.99E-04	2.15E-04	2.86E-04	2.08E-04	2.77E-04
M52	Maneuvering	Point	810583.3	824864.5	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03	1.49E-04	1.99E-04	2.15E-04	2.86E-04	2.08E-04	2.77E-04
M53	Maneuvering	Point	810562.3	824864.9	0	15	8											

Annex A1 - Emission Inventory for Marine Vessels (for annual NO₂ assessment)

Source ID	Description	Source Type	Coordinates		Base Elevation	Height	Stack Temp	Stack Velocity	Stack Diameter	Working Hour	NOx Emission Rate	
			X1	Y1							0700 - 2300	2300 - 0700
			m	m							g/s	g/s
B1_B	Berthing	Point	811058.8	824834.9	0	15	803	8	0.3	24 hours	4.48E-02	5.97E-02
B2_B	Berthing	Point	810923.2	824925.7	0	15	803	8	0.3	24 hours	4.48E-02	5.97E-02
B3_B	Berthing	Point	810786.6	825019.0	0	15	803	8	0.3	24 hours	4.48E-02	5.97E-02
IB1_B	Berthing	Point	810853.6	824979.3	0	9	795	8	0.15	0700-2300	2.42E-03	0.00E+00
IB2_B	Berthing	Point	810989.7	824887.2	0	9	795	8	0.15	0700-2300	2.42E-03	0.00E+00
B	Berthing	Point	811124.7	824794.9	0	9	795	8	0.15	0700-2300	2.30E-02	0.00E+00
M1	Maneuvering	Point	810906.9	824905.6	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M2	Maneuvering	Point	810900.1	824885.7	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M3	Maneuvering	Point	810894.3	824865.9	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M4	Maneuvering	Point	810891.9	824845.1	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M5	Maneuvering	Point	810890.9	824824.4	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M6	Maneuvering	Point	810890.9	824803.4	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M7	Maneuvering	Point	810892.0	824782.8	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M8	Maneuvering	Point	810896.1	824762.3	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M9	Maneuvering	Point	810900.2	824742.0	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M10	Maneuvering	Point	810908.8	824722.8	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M11	Maneuvering	Point	810917.5	824703.7	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M12	Maneuvering	Point	810926.1	824684.9	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M13	Maneuvering	Point	810936.2	824666.4	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M14	Maneuvering	Point	810946.2	824648.0	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M15	Maneuvering	Point	810957.0	824630.3	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M16	Maneuvering	Point	810968.6	824612.9	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M17	Maneuvering	Point	810980.3	824595.4	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M18	Maneuvering	Point	810991.9	824578.3	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M19	Maneuvering	Point	811004.6	824561.5	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M20	Maneuvering	Point	811017.2	824544.8	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M21	Maneuvering	Point	811030.0	824528.5	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M22	Maneuvering	Point	811044.0	824512.9	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M23	Maneuvering	Point	811058.1	824497.2	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M24	Maneuvering	Point	811072.1	824481.6	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M25	Maneuvering	Point	811086.6	824466.9	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M26	Maneuvering	Point	811101.5	824452.1	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M27	Maneuvering	Point	811116.3	824437.2	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M28	Maneuvering	Point	811131.1	824422.7	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M29	Maneuvering	Point	811146.2	824408.1	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M30	Maneuvering	Point	811161.2	824393.5	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M31	Maneuvering	Point	811176.3	824379.2	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M32	Maneuvering	Point	811191.6	824364.9	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M33	Maneuvering	Point	811206.8	824350.8	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M34	Maneuvering	Point	811222.8	824337.2	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M35	Maneuvering	Point	811237.7	824324.5	0	9	795	8	0.15	0700-2300	2.31E-05	0.00E+00
M36	Maneuvering	Point	810906.9	824905.6	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M37	Maneuvering	Point	810890.9	824892.0	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M38	Maneuvering	Point	810873.5	824881.4	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M39	Maneuvering	Point	810853.9	824873.9	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M40	Maneuvering	Point	810833.7	824869.4	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M41	Maneuvering	Point	810813.0	824865.9	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M42	Maneuvering	Point	810792.4	824864.8	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M43	Maneuvering	Point	810771.4	824864.2	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M44	Maneuvering	Point	810750.7	824863.6	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M45	Maneuvering	Point	810729.7	824863.2	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M46	Maneuvering	Point	810708.7	824862.7	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M47	Maneuvering	Point	810687.7	824862.2	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M48	Maneuvering	Point	810667.0	824862.5	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M49	Maneuvering	Point	810646.0	824863.0	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M50	Maneuvering	Point	810625.0	824863.6	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M51	Maneuvering	Point	810604.3	824864.0	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M52	Maneuvering	Point	810583.3	824864.5	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M53	Maneuvering	Point	810562.3	824864.9	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M54	Maneuvering	Point	810541.4	824865.3	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M55	Maneuvering	Point	810520.8	824865.9	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M56	Maneuvering	Point	810500.0	824870.6	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M57	Maneuvering	Point	810479.8	824875.0	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M58	Maneuvering	Point	810459.6	824880.8	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M59	Maneuvering	Point	810439.8	824886.7	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M60	Maneuvering	Point	810420.7	824895.3	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M61	Maneuvering	Point	810401.5	824904.0	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M62	Maneuvering	Point	810382.9	824913.0	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M63	Maneuvering	Point	810364.4	824922.9	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M64	Maneuvering	Point	810345.8	824932.7	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M65	Maneuvering	Point	810328.1	824943.4	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M66	Maneuvering	Point	810310.3	824954.5	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M67	Maneuvering	Point	810292.7	824965.4	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M68	Maneuvering	Point	810275.0	824976.7	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M69	Maneuvering	Point	810257.7	824988.0	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M70	Maneuvering	Point	810241.6	825001.5	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
M71	Maneuvering	Point	810237.6	825004.9	0	15	803	8	0.3	24 hours	7.16E-03	9.55E-03
C1	Maneuvering	Point	811110.4	824767.0	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C2	Maneuvering	Point	811096.8	824752.4	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C3	Maneuvering	Point	811083.1	824737.7	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C4	Maneuvering	Point	811069.5	824723.1	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C5	Maneuvering	Point	811054.7	824709.7	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C6	Maneuvering	Point	811039.5	824696.7	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00

Annex A1 - Emission Inventory for Marine Vessels (for annual NO₂ assessment)

Source ID	Description	Source Type	Coordinates		Base Elevation	Height	Stack Temp	Stack Velocity	Stack Diameter	Working Hour	NOx Emission Rate	
			X1	Y1							0700 - 2300	2300 - 0700
			m	m							g/s	g/s
C7	Maneuvering	Point	811024.3	824683.7	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C8	Maneuvering	Point	811009.0	824670.8	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C9	Maneuvering	Point	810990.3	824663.7	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C10	Maneuvering	Point	810971.6	824656.6	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C11	Maneuvering	Point	810952.9	824649.5	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C12	Maneuvering	Point	810934.2	824642.3	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C13	Maneuvering	Point	810915.6	824635.2	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C14	Maneuvering	Point	810896.0	824631.4	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C15	Maneuvering	Point	810876.3	824628.1	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C16	Maneuvering	Point	810856.5	824624.8	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C17	Maneuvering	Point	810836.8	824621.5	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C18	Maneuvering	Point	810816.9	824620.4	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C19	Maneuvering	Point	810796.9	824619.9	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C20	Maneuvering	Point	810776.9	824619.3	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C21	Maneuvering	Point	810756.9	824618.7	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C22	Maneuvering	Point	810736.9	824618.3	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C23	Maneuvering	Point	810716.9	824617.8	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C24	Maneuvering	Point	810696.9	824617.4	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C25	Maneuvering	Point	810676.9	824617.1	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C26	Maneuvering	Point	810656.9	824617.7	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C27	Maneuvering	Point	810636.9	824618.2	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C28	Maneuvering	Point	810616.9	824618.7	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C29	Maneuvering	Point	810596.9	824619.1	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C30	Maneuvering	Point	810576.9	824619.5	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C31	Maneuvering	Point	810556.9	824619.9	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C32	Maneuvering	Point	810536.9	824620.4	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C33	Maneuvering	Point	810517.0	824621.4	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C34	Maneuvering	Point	810497.1	824623.9	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C35	Maneuvering	Point	810477.3	824626.5	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C36	Maneuvering	Point	810457.5	824629.1	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C37	Maneuvering	Point	810437.7	824632.1	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C38	Maneuvering	Point	810418.5	824637.6	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00
C39	Maneuvering	Point	810415.8	824638.4	0	9	795	8	0.15	0700-2300	9.84E-05	0.00E+00

Annex A1 - Plant Emission Inventory

Source ID	Description	Source Type	Coordinates		Base Elevation	Height	Stack Temp	Stack Velocity	Stack Diameter	Working Hour	Engine Power	Fuel Consumption	NOx	SO2	RSP	FSP
			X1	Y1												
			m	m												
Gen1	C&DMSF Generator	Point	811165.8	824903.1	5	1.5	362	56.6	0.075	0800-2000	400	42	4.44E-01	8.77E-04	2.22E-02	2.22E-02
Gen2	C&DMCF	Point	811192.7	825061.7	15	1.9	773	30.8	0.1	0700-2300	168	50	1.87E-01	1.04E-03	9.33E-03	9.33E-03

Notes:

(a) NOx and RSP emission rates were calculated based on the engine power output and NOx and RSP emission factors from European Union Stage IIIA Standard specified under the Air Pollution Control (Non-road Mobile Machinery)(Emission) Regulation. FSP emission rate was assumed the same as RSP emission rate for conservative assessment.

(b) SO2 emission rate was calculated based on plant fuel consumption and the SO2 emission factor from Table 3.3-1, Section 3.3 (Gasoline and Diesel Industrial Engines), AP-42 Vol 1. As the SO2 emission factor from AP-42 was based on a sulphur content of 0.32%, it was corrected based on a sulphur content of 0.005% for ULSD in Hong Kong. Energy content of diesel fuel was assumed to be 38.6 MJ/L.

Annex A2

Emission Inventory of Adjacent Industrial Emission Sources

Annex A2 - Emission Inventory for Stack Emission Sources in the Vicinity of TMFB

Sources	Model Input ID	X	Y	Elevation m	TSP Emission g/s or g/m ³ /s	PM Emission g/s or g/m ³ /s	PM Emission g/s or g/m ³ /s	NOx Emission g/s	SO2 Emission g/s	Discharge Height m	Temp K	Exit Velocity m/s	Diameter m	X-length m	Y-length m	Angle degree	Operation Hour
Green Island Cement	G1	810021.8	825547.4	0		0.17944	0.17944			17.2	0	6.5	1.95				24 hours
Green Island Cement	G2	810032.1	825542.4	0		0.17944	0.17944			17.2	0	6.5	1.95				24 hours
Green Island Cement	G3	810088.4	825511.2	0		0.02389	0.02389			16	0	16.8	0.44				24 hours
Green Island Cement	G4	810187.9	825609.7	0		0.04806	0.04806			30	0	18.1	0.60				24 hours
Green Island Cement	G5	810142.3	825556.0	0		0.04806	0.04806			32	0	14.9	0.67				24 hours
Green Island Cement	G6	810188.5	825602.5	0		0.08694	0.08694			39.1	0	21.4	0.75				24 hours
Green Island Cement	G7	810175.4	825610.7	0		0.01528	0.01528			32.8	0	17.9	0.34				24 hours
Green Island Cement	G8	810193.5	825587.0	0		0.01194	0.01194			17.6	0	10.6	0.39				24 hours
Green Island Cement	G9	810171.7	825752.4	0		0.03972	0.03972			59.8	343	19.2	0.58				24 hours
Green Island Cement	G10	810168.4	825764.6	0		0.00417	0.00417			17	343	13.6	0.22				24 hours
Green Island Cement	G11	810369.3	825839.0	0		0.01806	0.01806			24.5	0	21.9	0.34				24 hours
Green Island Cement	G12	810373.4	825838.0	0		0.02250	0.02250			39.2	0	19.9	0.39				24 hours
Green Island Cement	G13	810365.2	825864.0	0		0.01444	0.01444			61.1	0	17.3	0.34				24 hours
Green Island Cement	G14	810344.1	825980.2	0		0.05472	0.05472			61.1	0	20.8	0.50				24 hours
Green Island Cement	G15	810413.4	825873.1	0		0.14917	0.14917			24.5	366	34.3	0.86				24 hours
Green Island Cement	G16	810372.9	825862.8	0		0.05056	0.05056			34.4	366	24.0	0.60				24 hours
Green Island Cement	G17	810389.9	825914.8	0		0.14917	0.14917			25.5	366	34.3	0.86				24 hours
Green Island Cement	G18	810366.7	825873.4	0		0.04806	0.04806			34.4	366	22.8	0.60				24 hours
Green Island Cement	G19	810364.4	825877.3	0		0.00611	0.00611			25.5	343	20.6	0.21				24 hours
Green Island Cement	G20	810388.9	825914.2	0		0.14917	0.14917			24.5	366	34.3	0.86				24 hours
Green Island Cement	G21	810356.1	825891.6	0		0.04806	0.04806			34.4	366	22.8	0.60				24 hours
Green Island Cement	G22	810213.0	825975.3	0		0.06778	0.06778			65.7	333	22.7	0.68				24 hours
Green Island Cement	G23	810220.6	825966.7	0		0.05833	0.05833			85.7	333	19.6	0.68				24 hours
Green Island Cement	G24	810203.8	825973.9	0		0.05833	0.05833			85.7	333	19.6	0.68				24 hours
Green Island Cement	G25	810211.5	825950.6	0		0.05833	0.05833			85.7	333	19.6	0.68				24 hours
Green Island Cement	G26	810202.5	825971.4	0		0.01944	0.01944			85.7	333	18.2	0.41				24 hours
Green Island Cement	G27	810232.2	825930.9	0		0.03750	0.03750			30.3	333	18.4	0.60				24 hours
Green Island Cement	G28	810216.2	825921.7	0		0.03750	0.03750			30.3	333	18.4	0.60				24 hours
Green Island Cement	G29	810192.2	825962.5	0		0.01944	0.01944			13	333	10.3	0.54				24 hours
Green Island Cement	G30	810199.2	825957.4	0		0.01944	0.01944			13	333	10.3	0.54				24 hours
Green Island Cement	G31	810198.3	825951.9	0		0.03694	0.03694			13	333	19.4	0.54				24 hours
Green Island Cement	G32	810201.2	825947.0	0		0.03694	0.03694			13	333	19.4	0.54				24 hours
Green Island Cement	G33	809940.1	825669.1	0		0.01472	0.01472			16.9	333	20.7	0.33				24 hours
Green Island Cement	G34	809935.3	825692.2	0		0.03556	0.03556			29	333	18.7	0.54				24 hours
Green Island Cement	G35	810223.6	825926.0	0		0.04528	0.04528			30.2	333	19.2	0.60				24 hours
Green Island Cement	G36	810359.9	825885.2	0		0.01194	0.01194			20	366	11.7	0.42				24 hours
Green Island Cement	G39	810150.8	825830.4	0		0.01528	0.01528			28.6	0	16.8	0.36				24 hours
Green Island Cement	G40	810244.9	825722.8	0		0.01111	0.01111			57.6	0	17.6	0.29				24 hours
Green Island Cement	G41	810228.0	825742.9	0		0.03861	0.03861			40.3	343	19.9	0.56				24 hours
Green Island Cement	G42	810192.1	825701.2	0		0.04139	0.04139			45.7	343	17.9	0.61				24 hours
Green Island Cement	G43	810175.5	825730.0	0		0.02306	0.02306			53.3	343	18.3	0.45				24 hours
Green Island Cement	G44	810198.8	825745.2	0		0.06472	0.06472			53.8	343	18.1	0.76				24 hours
Green Island Cement	G45	810189.3	825704.2	0		0.00806	0.00806			35.5	343	19.1	0.26				24 hours
Green Island Cement	G47	810198.0	825722.5	0		0.02778	0.02778			19.5	343	18.0	0.50				24 hours
Green Island Cement	G48	810131.3	825558.0	0		0.03583	0.03583			17.4	0	14.4	0.59				24 hours
Green Island Cement	G50	810209.8	825977.3	0		0.00472	0.00472			24.7	343	9.3	0.29				24 hours
Green Island Cement	G51	810371.3	825890.0	0		0.13583	0.13583			26.4	0	13.0	1.20				24 hours
Green Island Cement	G52	810374.8	825838.8	0		0.03583	0.03583			30.9	0	10.1	0.70				24 hours
Green Island Cement	G56	810249.8	825775.5	0		0.08083	0.08083			72.2	338	5.0	1.60				24 hours
Green Island Cement	G57	810324.8	825844.4	0		0.34444	0.34444			31.2	561	26.9	1.50				24 hours
Green Island Cement	G58	810254.7	825771.9	0		2.22222	2.22222	111.6667	27.78	113	383	20.6	3.10				24 hours
Green Island Cement	G60	810228.2	825769.7	0		0.13139	0.13139			113	338	14.0	1.59				24 hours
Green Island Cement	G61	810227.3	825940.6	0		0.06139	0.06139			32	0	13.3	0.80				24 hours
Green Island Cement	G62	809945.8	825584.7	0		0.17944	0.17944			17.2	0	6.5	1.95				24 hours
Green Island Cement	G63	809935.5	825589.8	0		0.17944	0.17944			17.2	0	6.5	1.95				24 hours
Green Island Cement	G66	810374.5	825853.2	0		0.03056	0.03056			63	0	14.2	0.57				24 hours
Green Island Cement	G67	810166.7	825747.9	0		0.02778	0.02778			27.8	343	12.7	0.60				24 hours
Green Island Cement	G68	810165.5	825749.2	0		0.02178	0.02178			29.8	343	12.7	0.60				24 hours
Green Island Cement	G69	810332.9	825821.6	0		0.09250	0.09250			15.5	383	30.3	0.28				24 hours
Green Island Cement	G70	809945.8	825703.8	0		0.05889	0.05889			25.9	333	10.5	0.60				24 hours
Green Island Cement	G71	809932.9	825674.1	0		0.01222	0.01222			24.2	333	5.3	0.60				24 hours
Green Island Cement	G72	810237.3	825945.6	0		0.03194	0.03194			16.9	333	13.8	0.60				24 hours
Green Island Cement	G73	810351.9	825859.6	0		0.04389	0.04389			78.8	363	2.3	1.85				24 hours
Green Island Cement	G75	810229.4	825616.1	0		0.00889	0.00889			2.9	333	39.7	0.23				24 hours
Shiu Wing Steel Mill	SW1	810243.3	825593.1	5		3.4194	3.4194	17.1		50	367	15.2	6.2				24 hours
Shiu Wing Steel Mill	SW2	810297.4	825653.9	5		0.7	0.4556	0.000161		35	325	15.7	2.8				24 hours
Shiu Wing Steel Mill	SW3	810309.5	825446.3	5		0.4639	0.4639	3.717	0.1222	50	813	10.3	1.85				24 hours
Shiu Wing Steel Mill	SW4	810270.3	825626.3	5		0.0088	0.0088			16	303	10.8	0.339				24 hours
Shiu Wing Steel Mill	SW5	810293.4	825601.8	5		0.0047	0.0047			16	303	5.9	0.339				24 hours
Shiu Wing Steel Mill	SW6	810336.7	825692.5	5		0.0511	0.0511	0.7194	0.04806	7	753	14.8	0.16				24 hours
EcoPark WEEE ^(a)	WEEE	810963.0	825412.0	5		0.0025	0.0025	0.0296	0.0009	13.2	463	7.19	0.15				24 hours
EcoPark South China ^(b)	SC	810840.0	825219.0	5		0.0001	0.0001	0.0078	0.0013	30	353	9.0	1				0700-1900
EcoPark SSK ^(d)	SSK	810768.0	825253.0	5		0.034	0.0255	0.99	0.46	30	353	16.9	1.8				0700-1900
EcoPark (Lot TS)	TS	810470.0	825342.0	5		0.42	0.42	2	1.277	30	353	9.0	1				0700-1900
EcoPark K Wah	KW1	810880.6	825301.2	5	0.0061	0.0061	0.0061			18	298	12.2	0.25				0700-1900
EcoPark K Wah	KW2	810890.4	825301.0	5	0.0061	0.0061	0.0061			18	298	12.2	0.25				0700-1900
EcoPark K Wah	KW3	810894.6	825297.3	5	0.0061	0.0061	0.0061			18	298	12.2	0.25				0700-1900
EcoPark K Wah	KW4	810919.8	825269.8	5	4.46E-05	2.16E-05	6.68E-06			5.5				4.80	25.00	38.10	0700-1900 (100%)1900-0700 (50%)
EcoPark K Wah	KW5	810926.5	825297.1	5	6.76E-06	3.14E-06	1.02E-06			3				2.30	3.60	38.10	0700-1900 (100%)1900-0700 (50%)
EcoPark K Wah	KW8	810901.0	825323.0	5	4.73E-05	2.26E-05	6.17E-06			4.30				4.30	11.30	38.10	0700-1900 (100%)1900-0700 (50%)
EcoPark K Wah	KW9	810910.9	825314.7	5	3.58E-05	1.75E-05	5.41E-06			0				13.00	18.50	38.11	0700-1900 (100%)1900-0700 (50%)
EcoPark K Wah	KW10_1	810854.0	825310.0	5	4.30E-05	8.04E-06	1.94E-06			0				1.50	26.30	68.70	0700-1900 (100%)1900-0700 (30%)
EcoPark K Wah	KW10_2	810877.9	825325.2	5	4.29E-05	8.04E-06	1.94E-06										

Annex A3

Vehicular Emissions from External and Internal Roads

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

0529880 TMFB

Pollutant Name: NOx

Speed km/hr	PC	LGV3	LGV4	PLB	LGV6	HGV7	HGV8	HGV8b	FBDD	MC	TAXI	PV4	PV5	NFB6	NFB7	NFB8	FBSD
	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
10	0.085	2.489	2.289	1.973	3.384	5.060	8.811	7.030	12.526	0.357	0.981	0.970	2.173	4.759	8.184	13.972	9.912
17	0.064	1.915	1.751	1.601	2.637	3.780	6.012	4.762	8.059	0.331	0.766	0.741	1.569	3.369	6.044	9.461	6.910
18	0.062	1.861	1.700	1.562	2.566	3.662	5.769	4.566	7.694	0.328	0.746	0.718	1.515	3.246	5.850	9.071	6.647
27	0.051	1.524	1.372	1.290	2.114	2.927	4.317	3.391	5.572	0.303	0.625	0.566	1.177	2.493	4.642	6.747	5.065
28	0.050	1.497	1.345	1.266	2.078	2.869	4.208	3.301	5.415	0.301	0.617	0.553	1.150	2.435	4.547	6.573	4.945
29	0.050	1.471	1.319	1.243	2.043	2.813	4.105	3.217	5.268	0.299	0.609	0.540	1.125	2.380	4.457	6.409	4.831
30	0.049	1.447	1.295	1.221	2.009	2.761	4.009	3.138	5.130	0.297	0.602	0.528	1.101	2.328	4.372	6.255	4.725
31	0.048	1.419	1.263	1.200	1.974	2.708	3.918	3.064	5.000	0.295	0.594	0.506	1.079	2.279	4.289	6.111	4.625
32	0.047	1.397	1.242	1.180	1.944	2.660	3.833	2.993	4.878	0.293	0.587	0.496	1.057	2.232	4.212	5.975	4.530
33	0.047	1.377	1.221	1.160	1.915	2.615	3.752	2.926	4.763	0.291	0.579	0.486	1.037	2.188	4.139	5.846	4.440
34	0.046	1.357	1.201	1.142	1.888	2.572	3.676	2.863	4.653	0.289	0.572	0.477	1.018	2.146	4.069	5.724	4.355
35	0.046	1.338	1.183	1.124	1.862	2.531	3.604	2.803	4.550	0.286	0.565	0.468	0.999	2.106	4.002	5.609	4.274
36	0.045	1.319	1.165	1.107	1.836	2.492	3.535	2.745	4.452	0.286	0.558	0.459	0.982	2.067	3.939	5.499	4.197
37	0.044	1.302	1.148	1.090	1.812	2.455	3.470	2.691	4.358	0.285	0.552	0.451	0.965	2.031	3.878	5.395	4.124
38	0.044	1.285	1.131	1.074	1.789	2.419	3.408	2.638	4.269	0.283	0.546	0.444	0.949	1.996	3.819	5.297	4.055
39	0.043	1.269	1.115	1.059	1.767	2.384	3.349	2.589	4.184	0.282	0.540	0.437	0.933	1.962	3.763	5.203	3.988
40	0.043	1.254	1.100	1.045	1.746	2.351	3.292	2.541	4.103	0.280	0.535	0.430	0.918	1.930	3.710	5.113	3.925
41	0.042	1.239	1.086	1.031	1.725	2.320	3.238	2.495	4.026	0.279	0.529	0.423	0.904	1.900	3.658	5.027	3.864
42	0.042	1.225	1.072	1.018	1.706	2.289	3.187	2.451	3.952	0.278	0.524	0.417	0.890	1.870	3.608	4.946	3.806
43	0.042	1.211	1.059	1.006	1.686	2.259	3.138	2.409	3.881	0.277	0.519	0.411	0.877	1.842	3.560	4.868	3.750
44	0.041	1.198	1.046	0.994	1.668	2.231	3.091	2.369	3.813	0.276	0.514	0.405	0.865	1.814	3.514	4.793	3.697
45	0.041	1.186	1.033	0.982	1.650	2.204	3.046	2.330	3.748	0.275	0.509	0.400	0.853	1.788	3.470	4.721	3.646
50	0.039	1.129	0.977	0.934	1.569	2.080	2.846	2.157	3.458	0.271	0.488	0.375	0.799	1.669	3.269	4.404	3.418
51	0.039	1.120	0.968	0.926	1.555	2.057	2.811	2.126	3.447	0.270	0.484	0.371	0.789	1.648	3.232	4.348	3.377
52	0.039	1.111	0.959	0.919	1.540	2.035	2.777	2.096	3.435	0.269	0.481	0.367	0.780	1.627	3.197	4.294	3.338
53	0.038	1.102	0.951	0.912	1.526	2.014	2.744	2.067	3.425	0.269	0.477	0.363	0.771	1.607	3.163	4.242	3.300
54	0.038	1.094	0.943	0.906	1.513	1.994	2.712	2.038	3.414	0.268	0.474	0.359	0.762	1.588	3.129	4.192	3.264

Year 2019	NO2/NOx ratio	NO/NOx ratio
PC	0.052	0.948
LGV3	0.087	0.913
LGV4	0.084	0.916
PLB	0.071	0.929
LGV6	0.244	0.756
HGV7	0.271	0.729
HGV8	0.102	0.898
FBDD	0.128	0.872
MC	0.050	0.950
TAXI	0.018	0.982
PV4	0.148	0.852
PV5	0.243	0.757
NFB6	0.269	0.731
NFB7	0.257	0.743
NFB8	0.081	0.919
FBSD	0.088	0.912
HGV8b	0.134	0.866

EMFAC-HK Model (v 4.1) Key Assumptions:

- Mode: EMFAC
- Calendar Year: 2019
- Temperature and relative humidity: 24 degree C, 77% (2018 average at Tuen Mun Weather Station)
- Vehicle Population (external traffic): Default (i.e. HGV8 emission factors for Roads R1 to R7, R9, R25 to R28)
- Vehicle Population (internal traffic): All HGV8 (year 2019) are of Euro V standard (i.e. HGV8b emission factors for Roads R8, R11, R14, R15, R17 to R22)
- Vehicle Accrual: Default
- Trips: Default (not used. No starting emissions as parking restrictions apply for all identified major roads within the Study Area)
- VKT: Default (not used in EMFAC mode)

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM1_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																								
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
1	PC	16	11	8	5	6	12	32	113	163	176	247	240	209	200	228	223	220	218	236	209	160	51	32	19	
2	LGV3	7	5	5	3	3	8	17	29	55	59	76	71	66	63	72	71	70	72	75	66	66	25	13	8	
3	LGV4	4	2	2	3	2	7	11	17	36	38	62	58	54	52	59	58	58	59	60	54	54	17	11	6	
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6	
5	LGV6	4	2	2	3	2	7	11	17	36	38	57	53	50	48	54	53	54	55	50	51	20	10	6		
6	HGV7	0	0	0	0	0	0	4	20	286	364	274	254	231	225	261	262	268	251	214	16	12	4	0	0	
7	HGV8	0	0	0	0	0	0	10	48	666	831	645	590	565	524	632	621	628	588	496	39	28	10	2	0	
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	6	
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	6	6	5	4	4	4	4
10	TAXI	9	5	6	4	5	7	15	64	88	96	100	103	92	87	99	97	96	99	102	92	76	34	15	5	
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2	
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2	
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9	
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9	
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9	
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7	
Total Flow (veh)		61	33	30	24	24	47	113	331	1367	1643	1561	1464	1353	1281	1501	1480	1486	1437	1338	612	518	226	141	98	

NOx emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.039	0.038	0.038	0.038	0.038	0.038	0.039	0.046	0.050	0.051	0.046	0.042	0.042	0.041	0.042	0.042	0.046	0.050	0.048	0.043	0.043	0.043	0.039	0.039	0.039
LGV3	1.111	1.102	1.102	1.102	1.102	1.102	1.120	1.338	1.497	1.524	1.338	1.239	1.225	1.198	1.239	1.239	1.357	1.471	1.419	1.254	1.254	1.129	1.120	1.111	
LGV4	0.959	0.951	0.951	0.951	0.951	0.951	0.968	1.183	1.345	1.372	1.183	1.086	1.072	1.046	1.086	1.086	1.201	1.319	1.263	1.100	1.100	0.977	0.968	0.959	
PLB	0.919	0.912	0.912	0.912	0.912	0.912	0.926	1.124	1.266	1.290	1.124	1.031	1.018	0.994	1.031	1.031	1.142	1.243	1.200	1.045	1.045	0.934	0.926	0.919	
LGV6	1.540	1.526	1.526	1.526	1.526	1.526	1.555	1.862	2.078	2.114	1.862	1.725	1.706	1.668	1.725	1.725	1.888	2.043	1.974	1.746	1.746	1.569	1.555	1.540	
HGV7	2.035	2.014	2.014	2.014	2.014	2.014	2.057	2.531	2.869	2.927	2.531	2.320	2.289	2.231	2.320	2.320	2.572	2.813	2.708	2.351	2.351	2.080	2.057	2.035	
HGV8	2.777	2.744	2.744	2.744	2.744	2.744	2.811	3.604	4.208	4.317	3.604	3.238	3.187	3.091	3.238	3.238	3.676	4.105	3.918	3.292	3.292	2.846	2.811	2.777	
FBDD	3.435	3.425	3.425	3.425	3.425	3.425	3.447	4.550	5.415	5.572	4.550	4.026	3.952	3.813	4.026	4.026	4.653	5.268	5.000	4.103	4.103	3.458	3.447	3.435	
MC	0.269	0.269	0.269	0.269	0.269	0.269	0.270	0.288	0.301	0.303	0.288	0.279	0.278	0.276	0.279	0.279	0.289	0.299	0.295	0.280	0.280	0.271	0.270	0.269	
TAXI	0.481	0.477	0.477	0.477	0.477	0.477	0.484	0.565	0.617	0.625	0.565	0.529	0.524	0.514	0.529	0.529	0.572	0.609	0.594	0.535	0.535	0.488	0.484	0.481	
PV4	0.367	0.363	0.363	0.363	0.363	0.363	0.371	0.468	0.553	0.566	0.468	0.423	0.417	0.405	0.423	0.423	0.477	0.540	0.506	0.430	0.430	0.375	0.371	0.367	
PV5	0.780	0.771	0.771	0.771	0.771	0.771	0.789	0.999	1.150	1.177	0.999	0.904	0.890	0.865	0.904	0.904	1.018	1.125	1.079	0.918	0.918	0.799	0.789	0.780	
NFB6	1.627	1.607	1.607	1.607	1.607	1.607	1.648	2.106	2.435	2.493	2.106	1.900	1.870	1.814	1.900	1.900	2.146	2.380	2.279	1.930	1.930	1.669	1.648	1.627	
NFB7	3.197	3.163	3.163	3.163	3.163	3.163	3.232	4.002	4.547	4.642	4.002	3.658	3.608	3.514	3.658	3.658	4.069	4.457	4.289	3.710	3.710	3.269	3.232	3.197	
NFB8	4.294	4.242	4.242	4.242	4.242	4.242	4.348	5.609	6.573	6.747	5.609	5.027	4.946	4.793	5.027	5.027	5.724	6.409	6.111	5.113	5.113	4.404	4.348	4.294	
FBSD	3.338	3.300	3.300	3.300	3.300	3.300	3.377	4.274	4.945	5.065	4.274	3.864	3.806	3.697	3.864	3.864	4.355	4.831	4.625	3.925	3.925	3.418	3.377	3.338	
Total composite emission factor (g/Veh/km)		1.1917	0.9620	1.0399	1.1240	1.0423	0.9382	1.1195	1.2719	2.9403	3.1010	2.3589	2.1011	2.1070	2.0354	2.1542	2.1561	2.4430	2.6641	2.4124	1.1467	1.1598	1.2823	1.3948	1.6525
Total composite emission factor (g/Veh/mile)		1.92	1.55	1.68	1.81	1.68	1.51	1.81	2.05	4.74	5.00	3.80	3.39	3.40	3.28	3.47	3.48	3.94	4.30	3.89	1.85	1.87	2.07	2.25	2.67

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM2_Unnamed Road to River Trade Terminal
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	4	3	2	1	1	1	3	5	8	17	13	13	13	15	13	13	15	17	13	10	7	7	5	
2	LGV3	3	1	1	1	1	1	1	3	5	5	5	4	4	5	5	5	5	5	4	4	3	3	3	
3	LGV4	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	3	3	4	3	3	3	2	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	3	4	3	3	3	3	2	
6	HGV7	0	0	0	0	0	0	2	2	64	69	57	52	38	56	63	54	59	63	65	1	1	1	0	
7	HGV8	0	0	0	0	0	0	6	16	396	406	333	306	277	265	314	311	324	314	331	2	2	1	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	2	1	1	1	1	1	1	2	4	5	5	3	3	3	5	3	3	5	5	3	1	1	1	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		13	7	6	3	3	3	15	32	483	499	425	385	341	347	408	392	410	408	431	29	24	19	17	13

NOx emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.062	0.062	0.062	0.062	0.062	
LGV3	1.861	1.861	1.861	1.861	1.861	1.861	1.861	1.861	1.915	1.915	1.915	1.915	1.915	1.915	1.915	1.915	1.915	1.915	1.915	1.861	1.861	1.861	1.861	1.861	
LGV4	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.751	1.751	1.751	1.751	1.751	1.751	1.751	1.751	1.751	1.751	1.751	1.700	1.700	1.700	1.700	1.700	
PLB	1.562	1.562	1.562	1.562	1.562	1.562	1.562	1.562	1.601	1.601	1.601	1.601	1.601	1.601	1.601	1.601	1.601	1.601	1.601	1.562	1.562	1.562	1.562	1.562	
LGV6	2.566	2.566	2.566	2.566	2.566	2.566	2.566	2.566	2.637	2.637	2.637	2.637	2.637	2.637	2.637	2.637	2.637	2.637	2.637	2.566	2.566	2.566	2.566	2.566	
HGV7	3.662	3.662	3.662	3.662	3.662	3.662	3.662	3.662	3.780	3.780	3.780	3.780	3.780	3.780	3.780	3.780	3.780	3.780	3.780	3.662	3.662	3.662	3.662	3.662	
HGV8	5.769	5.769	5.769	5.769	5.769	5.769	5.769	5.769	6.012	6.012	6.012	6.012	6.012	6.012	6.012	6.012	6.012	6.012	6.012	5.769	5.769	5.769	5.769	5.769	
FBDD	7.694	7.694	7.694	7.694	7.694	7.694	7.694	7.694	8.059	8.059	8.059	8.059	8.059	8.059	8.059	8.059	8.059	8.059	8.059	7.694	7.694	7.694	7.694	7.694	
MC	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.328	0.328	0.328	0.328	0.328	
TAXI	0.746	0.746	0.746	0.746	0.746	0.746	0.746	0.746	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.766	0.746	0.746	0.746	0.746	0.746	
PV4	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.741	0.741	0.741	0.741	0.741	0.741	0.741	0.741	0.741	0.741	0.741	0.718	0.718	0.718	0.718	0.718	
PV5	1.515	1.515	1.515	1.515	1.515	1.515	1.515	1.515	1.569	1.569	1.569	1.569	1.569	1.569	1.569	1.569	1.569	1.569	1.569	1.515	1.515	1.515	1.515	1.515	
NFB6	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.246	3.369	3.369	3.369	3.369	3.369	3.369	3.369	3.369	3.369	3.369	3.369	3.246	3.246	3.246	3.246	3.246	
NFB7	5.850	5.850	5.850	5.850	5.850	5.850	5.850	5.850	6.044	6.044	6.044	6.044	6.044	6.044	6.044	6.044	6.044	6.044	6.044	5.850	5.850	5.850	5.850	5.850	
NFB8	9.071	9.071	9.071	9.071	9.071	9.071	9.071	9.071	9.461	9.461	9.461	9.461	9.461	9.461	9.461	9.461	9.461	9.461	9.461	9.071	9.071	9.071	9.071	9.071	
FBSD	6.647	6.647	6.647	6.647	6.647	6.647	6.647	6.647	6.910	6.910	6.910	6.910	6.910	6.910	6.910	6.910	6.910	6.910	6.910	6.647	6.647	6.647	6.647	6.647	
Total composite emission factor (g/Veh/km)		1.2198	1.0087	1.1664	0.8898	0.8898	0.8898	3.2666	3.6109	5.4845	5.4685	5.2930	5.3561	5.3752	5.2704	5.2781	5.3565	5.3580	5.2781	5.2615	1.3273	1.5339	1.5262	1.1509	1.1673
Total composite emission factor (g/Veh/mile)		1.97	1.63	1.88	1.44	1.44	1.44	5.27	5.82	8.85	8.82	8.54	8.64	8.67	8.50	8.51	8.64	8.64	8.51	8.49	2.14	2.47	2.46	1.86	1.88

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM3_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	12	8	6	4	5	11	29	108	155	168	230	227	196	187	213	210	207	203	219	196	150	44	25	14
2	LGV3	4	4	4	2	2	7	16	26	50	54	71	66	62	59	67	66	65	67	70	62	62	22	10	5
3	LGV4	2	1	1	3	2	7	10	15	33	35	58	55	51	49	56	55	55	56	56	51	51	14	8	4
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	2	1	1	3	2	7	10	15	33	35	53	50	47	45	51	50	51	51	51	47	48	17	7	4
6	HGV7	0	0	0	0	0	0	2	18	222	295	217	202	193	169	198	208	209	188	149	15	11	3	0	0
7	HGV8	0	0	0	0	0	0	4	32	270	425	312	284	288	259	318	310	304	274	165	37	26	9	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	6	5	6	6	6	6	6	6	5	4	4	4
10	TAXI	7	4	5	3	4	6	14	62	84	91	95	100	89	84	94	94	93	94	97	89	75	33	14	4
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	3	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
Total Flow (veh)		48	26	24	21	21	44	98	299	884	1144	1136	1079	1012	934	1093	1088	1076	1029	907	583	494	207	124	85

NOx emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.039	0.038	0.038	0.038	0.038	0.038	0.039	0.044	0.046	0.046	0.046	0.046	0.041	0.041	0.042	0.042	0.046	0.050	0.048	0.042	0.041	0.039	0.039	0.039	0.039
LGV3	1.111	1.102	1.102	1.102	1.102	1.102	1.120	1.302	1.338	1.338	1.338	1.198	1.198	1.211	1.239	1.239	1.357	1.471	1.419	1.239	1.198	1.129	1.120	1.111	1.111
LGV4	0.959	0.951	0.951	0.951	0.951	0.951	0.968	1.148	1.183	1.183	1.183	1.046	1.046	1.059	1.086	1.086	1.201	1.319	1.263	1.086	1.046	0.977	0.968	0.959	0.959
PLB	0.919	0.912	0.912	0.912	0.912	0.912	0.926	1.090	1.124	1.124	1.124	0.994	0.994	1.006	1.031	1.031	1.142	1.243	1.200	1.031	0.994	0.934	0.926	0.919	0.919
LGV6	1.540	1.526	1.526	1.526	1.526	1.526	1.555	1.812	1.862	1.862	1.862	1.668	1.668	1.686	1.725	1.725	1.888	2.043	1.974	1.725	1.668	1.569	1.555	1.540	1.540
HGV7	2.035	2.014	2.014	2.014	2.014	2.014	2.057	2.455	2.531	2.531	2.531	2.231	2.231	2.259	2.320	2.320	2.572	2.813	2.708	2.320	2.231	2.080	2.057	2.035	2.035
HGV8	2.777	2.744	2.744	2.744	2.744	2.744	2.811	3.470	3.604	3.604	3.604	3.091	3.091	3.138	3.238	3.238	3.676	4.105	3.918	3.238	3.091	2.846	2.811	2.777	2.777
FBDD	3.435	3.425	3.425	3.425	3.425	3.425	3.447	4.358	4.550	4.550	4.550	3.813	3.813	3.881	4.026	4.026	4.653	5.268	5.000	4.026	3.813	3.458	3.447	3.435	3.435
MC	0.269	0.269	0.269	0.269	0.269	0.269	0.270	0.285	0.288	0.288	0.288	0.276	0.276	0.277	0.279	0.279	0.289	0.299	0.295	0.279	0.276	0.271	0.270	0.269	0.269
TAXI	0.481	0.477	0.477	0.477	0.477	0.477	0.484	0.552	0.565	0.565	0.565	0.514	0.514	0.519	0.529	0.529	0.572	0.609	0.594	0.529	0.514	0.488	0.484	0.481	0.481
PV4	0.367	0.363	0.363	0.363	0.363	0.363	0.371	0.451	0.468	0.468	0.468	0.405	0.405	0.411	0.423	0.423	0.477	0.540	0.506	0.423	0.405	0.375	0.371	0.367	0.367
PV5	0.780	0.771	0.771	0.771	0.771	0.771	0.789	0.965	0.999	0.999	0.999	0.865	0.865	0.877	0.904	0.904	1.018	1.125	1.079	0.904	0.865	0.799	0.789	0.780	0.780
NFB6	1.627	1.607	1.607	1.607	1.607	1.607	1.648	2.031	2.106	2.106	2.106	1.814	1.814	1.842	1.900	1.900	2.146	2.380	2.279	1.900	1.814	1.669	1.648	1.627	1.627
NFB7	3.197	3.163	3.163	3.163	3.163	3.163	3.232	3.878	4.002	4.002	4.002	3.514	3.514	3.560	3.658	3.658	4.069	4.457	4.288	3.658	3.514	3.269	3.232	3.197	3.197
NFB8	4.294	4.242	4.242	4.242	4.242	4.242	4.348	5.395	5.609	5.609	5.609	4.793	4.793	4.868	5.027	5.027	5.724	6.409	6.111	5.027	4.793	4.404	4.348	4.294	4.294
FBSD	3.338	3.300	3.300	3.300	3.300	3.300	3.377	4.124	4.274	4.274	4.274	3.697	3.697	3.750	3.864	3.864	4.355	4.831	4.625	3.864	3.697	3.418	3.377	3.338	3.338
Total composite emission factor (g/Veh/km)		1.3177	1.0606	1.1277	1.2075	1.1141	0.9654	1.0335	1.1228	2.1130	2.3105	2.0384	1.7296	1.7924	1.7895	1.8779	1.8767	2.1089	2.2749	1.9084	1.1450	1.1070	1.3193	1.4918	1.7993
Total composite emission factor (g/Veh/mile)		2.13	1.71	1.82	1.95	1.80	1.56	1.67	1.81	3.41	3.73	3.29	2.79	2.89	3.03	3.03	3.40	3.67	3.08	1.85	1.79	2.13	2.41	2.90	2.90

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM5_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	10	7	5	4	5	11	28	106	152	165	219	187	179	203	200	197	193	209	187	142	38	19	9	
2	LGV3	2	4	4	2	2	7	16	24	48	52	65	62	58	55	63	62	61	63	64	58	58	18	6	3
3	LGV4	1	1	1	3	2	7	10	14	32	34	54	52	48	46	53	52	52	53	52	48	48	11	5	2
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	7	10	14	32	34	49	47	44	42	48	47	47	48	47	44	45	14	4	2
6	HGV7	0	0	0	0	0	0	2	17	202	251	177	164	157	137	158	170	167	150	137	14	11	3	0	0
7	HGV8	0	0	0	0	0	0	4	28	156	179	80	70	80	73	94	90	64	64	99	31	23	8	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	6	6	5	4	4	4
10	TAXI	5	4	5	3	4	6	14	60	82	89	88	94	84	79	88	88	87	88	90	84	70	29	10	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	5	5	5	5	5	5	4	4	3	2	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	5	5	5	4	4	3	2	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
Total Flow (veh)		40	25	23	21	21	44	97	286	741	845	832	801	744	693	803	804	768	798	552	468	186	104	71	

NOx emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.039	0.038	0.038	0.038	0.038	0.038	0.039	0.046	0.046	0.046	0.047	0.042	0.042	0.042	0.042	0.041	0.047	0.047	0.047	0.046	0.046	0.039	0.039	0.039	0.039
LGV3	1.111	1.102	1.102	1.102	1.102	1.102	1.120	1.338	1.357	1.357	1.377	1.225	1.225	1.225	1.239	1.198	1.377	1.377	1.377	1.357	1.357	1.129	1.120	1.111	1.111
LGV4	0.959	0.951	0.951	0.951	0.951	0.951	0.968	1.183	1.201	1.201	1.221	1.072	1.072	1.072	1.086	1.046	1.221	1.221	1.221	1.201	1.201	0.977	0.968	0.959	0.959
PLB	0.919	0.912	0.912	0.912	0.912	0.912	0.926	1.124	1.142	1.142	1.160	1.018	1.018	1.018	1.031	0.994	1.160	1.160	1.160	1.142	1.142	0.934	0.926	0.919	0.919
LGV6	1.540	1.526	1.526	1.526	1.526	1.526	1.555	1.862	1.888	1.888	1.915	1.706	1.706	1.706	1.725	1.668	1.915	1.915	1.915	1.888	1.888	1.569	1.555	1.540	1.540
HGV7	2.035	2.014	2.014	2.014	2.014	2.014	2.057	2.531	2.572	2.572	2.615	2.289	2.289	2.289	2.320	2.231	2.615	2.615	2.615	2.572	2.572	2.080	2.057	2.035	2.035
HGV8	2.777	2.744	2.744	2.744	2.744	2.744	2.811	3.604	3.676	3.676	3.752	3.187	3.187	3.187	3.238	3.091	3.752	3.752	3.752	3.676	3.676	2.846	2.811	2.777	2.777
FBDD	3.435	3.425	3.425	3.425	3.425	3.425	3.447	4.550	4.653	4.653	4.763	3.952	3.952	3.952	4.026	3.813	4.763	4.763	4.763	4.653	4.653	3.458	3.447	3.435	3.435
MC	0.269	0.269	0.269	0.269	0.269	0.269	0.270	0.288	0.289	0.289	0.291	0.278	0.278	0.278	0.279	0.276	0.291	0.291	0.291	0.289	0.289	0.271	0.270	0.269	0.269
TAXI	0.481	0.477	0.477	0.477	0.477	0.477	0.484	0.565	0.572	0.572	0.579	0.524	0.524	0.524	0.529	0.514	0.579	0.579	0.579	0.572	0.572	0.488	0.484	0.481	0.481
PV4	0.367	0.363	0.363	0.363	0.363	0.363	0.371	0.468	0.477	0.477	0.486	0.417	0.417	0.417	0.423	0.405	0.486	0.486	0.486	0.477	0.477	0.375	0.371	0.367	0.367
PV5	0.780	0.771	0.771	0.771	0.771	0.771	0.789	0.999	1.018	1.018	1.037	0.890	0.890	0.890	0.904	0.865	1.037	1.037	1.037	1.018	1.018	0.799	0.789	0.780	0.780
NFB6	1.627	1.607	1.607	1.607	1.607	1.607	1.648	2.106	2.146	2.146	2.188	1.870	1.870	1.870	1.900	1.814	2.188	2.188	2.188	2.146	2.146	1.669	1.648	1.627	1.627
NFB7	3.197	3.163	3.163	3.163	3.163	3.163	3.232	4.002	4.069	4.069	4.139	3.608	3.608	3.608	3.658	3.514	4.139	4.139	4.139	4.069	4.069	3.269	3.232	3.197	3.197
NFB8	4.294	4.242	4.242	4.242	4.242	4.242	4.348	5.609	5.724	5.724	5.846	4.946	4.946	4.946	5.027	4.793	5.846	5.846	5.846	5.724	5.724	4.404	4.348	4.294	4.294
FBSD	3.338	3.300	3.300	3.300	3.300	3.300	3.377	4.274	4.355	4.355	4.440	3.806	3.806	3.806	3.864	3.697	4.440	4.440	4.440	4.355	4.355	3.418	3.377	3.338	3.338
Total composite emission factor (g/Veh/km)		1.4372	1.1015	1.1750	1.2075	1.1141	0.9654	1.0437	1.1292	1.9220	1.9731	1.6847	1.4152	1.4841	1.4620	1.5161	1.4615	1.6703	1.6564	1.7060	1.2719	1.2927	1.3758	1.6420	2.0293
Total composite emission factor (g/Veh/mile)		2.32	1.78	1.90	1.95	1.80	1.56	1.68	1.82	3.10	3.18	2.72	2.28	2.36	2.45	2.36	2.69	2.67	2.75	2.05	2.09	2.22	2.65	3.27	3.27

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM7, Siu Lang Shui Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
1	PC	0	0	0	0	0	0	1	4	8	10	7	5	5	5	7	5	7	7	5	1	0	0	0	
2	LGV3	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	
3	LGV4	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	8	15	18	11	9	9	9	11	9	9	11	11	2	0	0	0	0	
7	HGV8	0	0	0	0	0	0	6	13	14	8	7	7	7	8	7	8	7	8	4	2	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	1	3	6	8	4	2	2	2	2	4	2	2	4	4	2	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		0	0	0	0	0	2	21	47	55	31	24	24	24	31	24	24	31	31	14	3	0	0	0	

NOx emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
PC	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	
LGV3	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	1.269	
LGV4	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	
PLB	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	
LGV6	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	1.767	
HGV7	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	2.384	
HGV8	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	3.349	
FBDD	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	4.184	
MC	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	0.282	
TAXI	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	
PV4	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	0.437	
PV5	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	
NFB6	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	1.962	
NFB7	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	3.763	
NFB8	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	5.203	
FBSD	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	3.988	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2918	1.9505	1.8969	1.8332	1.8306	1.9777	1.9777	1.9777	1.9777	1.8306	1.9777	1.9777	1.8306	1.4807	2.2468	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.47	3.15	3.06	2.96	2.95	3.19	3.19	3.19	3.19	2.95	3.19	3.19	2.95	2.39	3.62	0.00	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM8_Unnamed Road to Cemetery
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	0	0	0	0	0	0	0	0	2	3	2	1	1	1	2	0	1	2	1	0	1	0	0	
2	LGV3	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	1	1	1	1	0	0	0		
3	LGV4	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0		
4	PLB	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0		
5	LGV6	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
6	HGV7	0	0	0	0	0	0	0	1	3	3	2	2	2	2	2	2	2	2	2	0	0	0		
7	HGV8	0	0	0	0	0	0	0	1	2	2	0	1	0	0	1	0	0	0	0	0	0	0		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	0	1	0	0	0		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total Flow (veh)		0	0	0	0	0	0	0	2	11	12	5	5	4	5	5	4	5	4	5	4	5	3	0	

NOx emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																							
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
PC	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	
LGV3	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	1.211	
LGV4	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	
PLB	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	1.006	
LGV6	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	1.686	
HGV7	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	2.259	
HGV8	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	
FBDD	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	3.881	
MC	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	
TAXI	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	0.519	
PV4	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	
PV5	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	0.877	
NFB6	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	1.842	
NFB7	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	
NFB8	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	4.868	
FBSD	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	3.750	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.6987	1.5835	1.4946	1.1627	1.6434	1.4430	1.2581	1.1627	2.0439	1.2581	1.4430	1.1627	0.5906	0.0000	0.0416	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.35	2.55	2.41	1.88	2.65	2.33	2.03	1.88	3.30	2.03	2.33	1.88	0.95	0.00	0.07	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM9, Siu Lang Shui Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	0	0	0	0	0	0	1	4	10	13	9	6	6	9	5	6	8	9	6	1	1	0	0	
2	LGV3	0	0	0	0	0	0	0	2	1	2	1	2	2	1	2	2	2	2	2	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	11	13	13	2	0	0	0	
7	HGV8	0	0	0	0	0	0	0	7	15	16	8	8	7	7	8	8	5	8	8	4	2	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		0	0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	0	0

NOx emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	
LGV3	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	
LGV4	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	
PLB	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	
LGV6	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	
HGV7	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	
HGV8	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	
FBDD	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	
MC	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	
TAXI	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	
PV4	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	
PV5	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	
NFB6	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	
NFB7	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	
NFB8	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	
FBSD	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2950	2.0624	1.8843	1.8161	1.7737	1.9674	1.9424	1.8942	1.7737	2.0361	1.7821	1.8232	1.7737	1.3494	2.2864	0.0439	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.48	3.33	3.04	2.93	2.86	3.17	3.13	3.06	2.86	3.28	2.87	2.94	2.86	2.18	3.69	0.07	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM10_Lung Fat Street
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	0	0	0	0	0	0	1	4	10	13	9	6	6	9	5	6	8	9	6	1	1	0	0	
2	LGV3	0	0	0	0	0	0	0	2	1	2	1	2	2	1	2	2	2	2	2	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	11	13	13	2	0	0	0	
7	HGV8	0	0	0	0	0	0	0	7	15	16	8	8	7	8	8	5	8	8	4	2	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		0	0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	0	0

NOx emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	
LGV3	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	
LGV4	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	1.131	
PLB	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	
LGV6	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	1.789	
HGV7	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	2.419	
HGV8	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	3.408	
FBDD	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	4.269	
MC	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	0.283	
TAXI	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	0.546	
PV4	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	0.444	
PV5	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	0.949	
NFB6	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	1.996	
NFB7	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	3.819	
NFB8	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	5.297	
FBSD	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	4.055	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2950	2.0624	1.8843	1.8161	1.7737	1.9674	1.9424	1.8942	1.7737	2.0361	1.7821	1.8232	1.7737	1.3494	2.2864	0.0439	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.48	3.33	3.04	2.93	2.86	3.17	3.13	3.06	2.86	3.28	2.87	2.94	2.86	2.18	3.69	0.07	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM11_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	6	4	3	1	2	8	23	93	128	137	193	196	166	159	178	180	176	169	184	166	129	27	11	7
2	LGV3	2	4	4	2	2	6	13	19	38	43	56	54	50	47	54	54	52	54	55	50	53	18	6	3
3	LGV4	1	1	1	3	2	6	9	10	24	26	48	46	43	41	47	46	47	47	46	43	43	11	5	2
4	PLB	5	3	2	2	2	2	3	6	6	6	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	6	9	10	25	26	43	41	39	37	42	41	42	42	41	39	40	14	4	2
6	HGV7	0	0	0	0	0	0	2	6	177	222	159	149	142	122	140	155	152	132	119	10	10	3	0	0
7	HGV8	0	0	0	0	0	0	4	15	103	121	47	38	50	45	62	58	40	32	67	12	11	7	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	6	6	5	4	4	4
10	TAXI	4	3	3	2	3	5	12	52	67	72	74	81	73	67	74	75	74	74	76	72	63	23	5	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	3	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
Total Flow (veh)		35	21	19	17	17	37	85	228	595	684	720	700	649	600	693	704	676	646	688	478	420	168	91	69

NOx emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.039	0.038	0.038	0.038	0.038	0.038	0.039	0.046	0.046	0.046	0.047	0.042	0.042	0.042	0.042	0.041	0.047	0.047	0.047	0.046	0.046	0.039	0.039	0.039	0.039
LGV3	1.111	1.102	1.102	1.102	1.102	1.102	1.120	1.338	1.357	1.357	1.377	1.225	1.225	1.225	1.239	1.198	1.377	1.377	1.377	1.357	1.357	1.129	1.120	1.111	1.111
LGV4	0.959	0.951	0.951	0.951	0.951	0.951	0.968	1.183	1.201	1.201	1.221	1.072	1.072	1.072	1.086	1.046	1.221	1.221	1.221	1.201	1.201	0.977	0.968	0.959	0.959
PLB	0.919	0.912	0.912	0.912	0.912	0.912	0.926	1.124	1.142	1.142	1.160	1.018	1.018	1.018	1.031	0.994	1.160	1.160	1.160	1.142	1.142	0.934	0.926	0.919	0.919
LGV6	1.540	1.526	1.526	1.526	1.526	1.526	1.555	1.862	1.888	1.888	1.915	1.706	1.706	1.706	1.725	1.668	1.915	1.915	1.915	1.888	1.888	1.569	1.555	1.540	1.540
HGV7	2.035	2.014	2.014	2.014	2.014	2.014	2.057	2.531	2.572	2.572	2.615	2.289	2.289	2.289	2.320	2.231	2.615	2.615	2.615	2.572	2.572	2.080	2.057	2.035	2.035
HGV8	2.777	2.744	2.744	2.744	2.744	2.744	2.811	3.604	3.676	3.676	3.752	3.187	3.187	3.187	3.238	3.091	3.752	3.752	3.752	3.676	3.676	2.846	2.811	2.777	2.777
FBDD	3.435	3.425	3.425	3.425	3.425	3.425	3.447	4.550	4.653	4.653	4.763	3.952	3.952	3.952	4.026	3.813	4.763	4.763	4.763	4.653	4.653	3.458	3.447	3.435	3.435
MC	0.269	0.269	0.269	0.269	0.269	0.269	0.270	0.288	0.289	0.289	0.291	0.278	0.278	0.278	0.279	0.276	0.291	0.291	0.291	0.289	0.289	0.271	0.270	0.269	0.269
TAXI	0.481	0.477	0.477	0.477	0.477	0.477	0.484	0.565	0.572	0.572	0.579	0.524	0.524	0.524	0.529	0.514	0.579	0.579	0.579	0.572	0.572	0.488	0.484	0.481	0.481
PV4	0.367	0.363	0.363	0.363	0.363	0.363	0.371	0.468	0.477	0.477	0.486	0.417	0.417	0.417	0.423	0.405	0.486	0.486	0.486	0.477	0.477	0.375	0.371	0.367	0.367
PV5	0.780	0.771	0.771	0.771	0.771	0.771	0.789	0.999	1.018	1.018	1.037	0.890	0.890	0.890	0.904	0.865	1.037	1.037	1.037	1.018	1.018	0.799	0.789	0.780	0.780
NFB6	1.627	1.607	1.607	1.607	1.607	1.607	1.648	2.106	2.146	2.146	2.188	1.870	1.870	1.870	1.900	1.814	2.188	2.188	2.188	2.146	2.146	1.669	1.648	1.627	1.627
NFB7	3.197	3.163	3.163	3.163	3.163	3.163	3.232	4.002	4.069	4.069	4.139	3.608	3.608	3.608	3.658	3.514	4.139	4.139	4.139	4.069	4.069	3.269	3.232	3.197	3.197
NFB8	4.294	4.242	4.242	4.242	4.242	4.242	4.348	5.609	5.724	5.724	5.846	4.946	4.946	4.946	5.027	4.793	5.846	5.846	5.846	5.724	5.724	4.404	4.348	4.294	4.294
FBSD	3.338	3.300	3.300	3.300	3.300	3.300	3.377	4.274	4.355	4.355	4.440	3.806	3.806	3.806	3.864	3.697	4.440	4.440	4.440	4.355	4.355	3.418	3.377	3.338	3.338
Total composite emission factor (g/Veh/km)		1.6244	1.2830	1.3681	1.4568	1.3414	1.0353	1.1082	0.9837	1.8729	1.9400	1.6531	1.3759	1.4544	1.4314	1.4943	1.4337	1.6522	1.6145	1.6769	1.2297	1.2654	1.4863	1.8466	2.0871
Total composite emission factor (g/Veh/mile)		2.62	2.07	2.21	2.35	2.16	1.67	1.79	1.59	3.02	3.13	2.67	2.22	2.35	2.31	2.41	2.31	2.66	2.60	2.70	1.98	2.04	2.40	2.98	3.37

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM12_Unnamed Road to EcoPark
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	4	3	2	3	3	3	4	9	14	15	17	15	15	14	16	15	16	16	15	12	10	8	2	
2	LGV3	0	0	0	0	0	1	3	5	8	8	7	7	6	6	7	7	7	7	6	5	0	0	0	
3	LGV4	0	0	0	0	0	1	1	4	6	6	6	6	5	6	6	6	6	6	5	5	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	1	1	4	6	6	6	6	5	6	6	6	6	6	5	5	0	0	0	
6	HGV7	0	0	0	0	0	0	0	2	7	8	5	4	4	5	4	4	5	5	2	1	0	0	0	
7	HGV8	0	0	0	0	0	0	0	6	38	42	25	24	23	21	24	24	19	24	24	15	10	1	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	1	1	2	1	1	1	1	5	9	9	10	10	9	9	10	10	10	10	9	7	6	5	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		5	4	4	4	4	7	10	35	88	94	76	72	67	64	74	72	65	74	74	57	45	17	13	2

NOx emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	
LGV3	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	
LGV4	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	1.263	
PLB	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	
LGV6	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	
HGV7	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	2.708	
HGV8	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	3.918	
FBDD	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	
MC	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	
TAXI	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	0.594	
PV4	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	
PV5	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	1.079	
NFB6	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	2.279	
NFB7	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	4.289	
NFB8	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	6.111	
FBSD	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	4.625	
Total composite emission factor (g/Veh/km)		0.1574	0.1847	0.3213	0.1847	0.1847	0.7707	0.8282	1.4964	2.3255	2.3732	1.9423	1.9568	1.9660	1.9350	1.9412	1.9568	1.8164	1.9412	1.9412	1.6660	1.5536	0.4686	0.2582	0.0481
Total composite emission factor (g/Veh/mile)		0.25	0.30	0.52	0.30	0.30	1.24	1.34	2.41	3.75	3.83	3.13	3.16	3.12	3.13	3.16	2.93	3.13	3.13	2.69	2.51	0.76	0.42	0.08	

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM13 Lung Yiu Street
 Year: 2019

Vehicle Classes	Description	Hour																								
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
1	PC	4	2	1	1	0	3	10	20	32	34	26	23	22	22	24	23	23	24	24	22	13	4	6	1	
2	LGV3	1	1	0	1	0	1	5	12	18	19	12	11	10	9	11	11	11	11	12	10	3	3	2	0	
3	LGV4	0	0	0	0	0	0	4	6	14	15	10	9	8	7	9	9	9	9	10	8	5	2	1	2	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	4	6	14	15	9	8	7	6	8	8	8	8	9	7	3	2	1	1	
6	HGV7	0	0	0	0	0	0	1	4	28	32	21	17	19	18	21	20	20	20	19	3	3	1	0	0	
7	HGV8	0	0	0	0	0	0	2	4	38	42	21	17	19	18	21	20	20	20	19	3	3	1	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0
10	TAXI	2	1	1	0	0	0	5	12	19	21	12	11	10	10	11	11	11	11	12	10	4	3	2	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		7	4	2	2	0	4	31	70	169	184	118	103	102	97	112	109	109	110	112	64	35	16	13	4	

NOx emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
PC	0.045	0.045	0.045	0.045	0.045	0.045	0.046	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.045	
LGV3	1.319	1.319	1.319	1.319	1.319	1.319	1.357	1.377	1.377	1.377	1.377	1.377	1.377	1.377	1.377	1.377	1.397	1.397	1.397	1.377	1.377	1.377	1.377	1.319	
LGV4	1.165	1.165	1.165	1.165	1.165	1.165	1.201	1.221	1.221	1.221	1.221	1.221	1.221	1.221	1.221	1.221	1.242	1.242	1.242	1.221	1.221	1.221	1.221	1.165	
PLB	1.107	1.107	1.107	1.107	1.107	1.107	1.142	1.160	1.160	1.160	1.160	1.160	1.160	1.160	1.160	1.160	1.180	1.180	1.180	1.160	1.160	1.160	1.160	1.107	
LGV6	1.836	1.836	1.836	1.836	1.836	1.836	1.888	1.915	1.915	1.915	1.915	1.915	1.915	1.915	1.915	1.915	1.944	1.944	1.944	1.915	1.915	1.915	1.915	1.836	
HGV7	2.492	2.492	2.492	2.492	2.492	2.492	2.572	2.615	2.615	2.615	2.615	2.615	2.615	2.615	2.615	2.615	2.660	2.660	2.660	2.615	2.615	2.615	2.615	2.492	
HGV8	3.535	3.535	3.535	3.535	3.535	3.535	3.676	3.752	3.752	3.752	3.752	3.752	3.752	3.752	3.752	3.752	3.833	3.833	3.833	3.752	3.752	3.752	3.752	3.535	
FBDD	4.452	4.452	4.452	4.452	4.452	4.452	4.653	4.763	4.763	4.763	4.763	4.763	4.763	4.763	4.763	4.763	4.878	4.878	4.878	4.763	4.763	4.763	4.763	4.452	
MC	0.286	0.286	0.286	0.286	0.286	0.286	0.289	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.293	0.293	0.293	0.291	0.291	0.291	0.291	0.286	
TAXI	0.558	0.558	0.558	0.558	0.558	0.558	0.572	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.579	0.587	0.587	0.587	0.579	0.579	0.579	0.579	0.558	
PV4	0.459	0.459	0.459	0.459	0.459	0.459	0.477	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.496	0.496	0.496	0.486	0.486	0.486	0.486	0.459	
PV5	0.982	0.982	0.982	0.982	0.982	0.982	1.018	1.037	1.037	1.037	1.037	1.037	1.037	1.037	1.037	1.037	1.057	1.057	1.057	1.037	1.037	1.037	1.037	0.982	
NFB6	2.067	2.067	2.067	2.067	2.067	2.067	2.146	2.188	2.188	2.188	2.188	2.188	2.188	2.188	2.188	2.188	2.232	2.232	2.232	2.188	2.188	2.188	2.188	2.067	
NFB7	3.939	3.939	3.939	3.939	3.939	3.939	4.069	4.139	4.139	4.139	4.139	4.139	4.139	4.139	4.139	4.139	4.212	4.212	4.212	4.139	4.139	4.139	4.139	3.939	
NFB8	5.499	5.499	5.499	5.499	5.499	5.499	5.724	5.846	5.846	5.846	5.846	5.846	5.846	5.846	5.846	5.846	5.975	5.975	5.975	5.846	5.846	5.846	5.846	5.499	
FBSD	4.197	4.197	4.197	4.197	4.197	4.197	4.355	4.440	4.440	4.440	4.440	4.440	4.440	4.440	4.440	4.440	4.530	4.530	4.530	4.440	4.440	4.440	4.440	4.197	
Total composite emission factor (g/Veh/km)		0.3737	0.4919	0.3017	0.6821	0.0000	0.3635	1.0446	1.3290	1.9014	1.9161	1.8006	1.7648	1.8566	1.8401	1.8508	1.8429	1.8773	1.8607	1.8156	0.9867	1.0942	1.1683	0.5860	1.0526
Total composite emission factor (g/Veh/mile)		0.60	0.79	0.49	1.10	0.00	0.59	1.68	2.14	3.07	3.09	2.90	2.85	2.99	2.97	2.99	2.97	3.00	2.93	1.59	1.76	1.88	0.95	1.70	

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM14_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	2	2	2	0	2	5	13	73	96	103	167	173	144	137	154	157	153	145	160	144	116	23	5	6
2	LGV3	1	3	4	1	2	5	8	7	20	24	44	43	40	38	43	41	43	43	40	50	15	4	3	
3	LGV4	1	1	1	3	2	6	5	4	10	11	38	37	35	34	38	37	38	36	35	38	9	4	0	
4	PLB	5	3	2	2	2	2	3	6	6	6	12	11	10	10	11	11	11	12	10	8	8	7	6	
5	LGV6	1	1	1	3	2	6	5	4	11	11	34	33	32	31	34	33	34	32	32	37	12	3	1	
6	HGV7	0	0	0	0	0	0	1	2	149	190	138	132	123	104	119	135	132	112	100	7	7	2	0	
7	HGV8	0	0	0	0	0	0	2	11	65	79	26	21	31	27	41	38	20	12	48	9	8	6	2	
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	
9	MC	0	0	0	0	0	0	0	1	1	1	5	5	4	5	5	5	5	5	5	5	4	4	3	4
10	TAXI	2	2	2	2	3	5	7	40	48	51	62	70	63	57	63	64	63	63	64	62	59	20	3	
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	4	4	4	3	2	
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	4	4	4	3	2	
13	NFB6	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	
14	NFB7	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	
15	NFB8	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	8	8	7	
Total Flow (veh)		28	17	17	15	17	33	54	158	426	500	602	597	547	503	581	595	567	536	576	414	385	152	78	65

NOx emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.039	0.038	0.038	0.038	0.038	0.038	0.039	0.046	0.046	0.046	0.047	0.042	0.042	0.042	0.042	0.041	0.047	0.047	0.046	0.046	0.046	0.039	0.039	0.039	0.039
LGV3	1.111	1.102	1.102	1.102	1.102	1.102	1.120	1.338	1.357	1.357	1.377	1.225	1.225	1.225	1.239	1.198	1.377	1.377	1.377	1.357	1.357	1.129	1.120	1.111	
LGV4	0.959	0.951	0.951	0.951	0.951	0.951	0.968	1.183	1.201	1.201	1.221	1.072	1.072	1.072	1.086	1.046	1.221	1.221	1.201	1.201	0.977	0.968	0.959	0.959	
PLB	0.919	0.912	0.912	0.912	0.912	0.912	0.926	1.124	1.142	1.142	1.160	1.018	1.018	1.018	1.031	0.994	1.160	1.160	1.160	1.142	1.142	0.934	0.926	0.919	
LGV6	1.540	1.526	1.526	1.526	1.526	1.526	1.555	1.862	1.888	1.888	1.915	1.706	1.706	1.706	1.725	1.668	1.915	1.915	1.915	1.888	1.888	1.569	1.555	1.540	
HGV7	2.035	2.014	2.014	2.014	2.014	2.014	2.057	2.531	2.572	2.572	2.615	2.289	2.289	2.289	2.320	2.231	2.615	2.615	2.615	2.572	2.572	2.080	2.057	2.035	
HGV8	2.777	2.744	2.744	2.744	2.744	2.744	2.811	3.604	3.676	3.676	3.752	3.187	3.187	3.187	3.238	3.091	3.752	3.752	3.752	3.676	3.676	2.846	2.811	2.777	
FBDD	3.435	3.425	3.425	3.425	3.425	3.425	3.447	4.550	4.653	4.653	4.763	3.952	3.952	3.952	4.026	3.813	4.763	4.763	4.763	4.653	4.653	3.458	3.447	3.435	
MC	0.269	0.269	0.269	0.269	0.269	0.269	0.270	0.288	0.289	0.289	0.291	0.278	0.278	0.278	0.279	0.276	0.291	0.291	0.289	0.289	0.271	0.270	0.269	0.269	
TAXI	0.481	0.477	0.477	0.477	0.477	0.477	0.484	0.565	0.572	0.572	0.579	0.524	0.524	0.524	0.529	0.514	0.579	0.579	0.579	0.572	0.572	0.488	0.484	0.481	
PV4	0.367	0.363	0.363	0.363	0.363	0.363	0.371	0.468	0.477	0.477	0.486	0.417	0.417	0.417	0.423	0.405	0.486	0.486	0.486	0.477	0.477	0.375	0.371	0.367	
PV5	0.780	0.771	0.771	0.771	0.771	0.771	0.789	0.999	1.018	1.018	1.037	0.890	0.890	0.890	0.904	0.865	1.037	1.037	1.037	1.018	1.018	0.799	0.789	0.780	
NFB6	1.627	1.607	1.607	1.607	1.607	1.607	1.648	2.106	2.146	2.146	2.188	1.870	1.870	1.870	1.900	1.814	2.188	2.188	2.188	2.146	2.146	1.669	1.648	1.627	
NFB7	3.197	3.163	3.163	3.163	3.163	3.163	3.232	4.002	4.069	4.069	4.139	3.608	3.608	3.608	3.658	3.514	4.139	4.139	4.139	4.069	4.069	3.269	3.232	3.197	
NFB8	4.294	4.242	4.242	4.242	4.242	4.242	4.348	5.609	5.724	5.724	5.846	4.946	4.946	4.946	5.027	4.793	5.846	5.846	5.846	5.724	5.724	4.404	4.348	4.294	
FBSD	3.338	3.300	3.300	3.300	3.300	3.300	3.377	4.274	4.355	4.355	4.440	3.806	3.806	3.806	3.864	3.697	4.440	4.440	4.440	4.355	4.355	3.418	3.377	3.338	
Total composite emission factor (g/Veh/km)		1.9510	1.4875	1.4987	1.5750	1.3414	1.1239	1.2597	0.8500	1.8752	1.9614	1.6241	1.3491	1.4256	1.4000	1.4688	1.4114	1.6156	1.5710	1.6564	1.2697	1.2827	1.5439	2.0744	2.1617
Total composite emission factor (g/Veh/mile)		3.15	2.40	2.42	2.54	2.16	1.81	2.03	1.37	3.02	3.16	2.62	2.18	2.26	2.37	2.28	2.61	2.53	2.67	2.05	2.07	2.49	3.35	3.49	

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM15_Lung Yiu Street
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	3	1	1	1	0	2	7	14	22	23	11	9	9	9	9	9	9	9	9	5	1	4	1	
2	LGV3	1	1	0	1	0	1	3	9	13	13	4	4	3	3	4	4	3	4	4	0	1	2	0	
3	LGV4	0	0	0	0	0	0	2	2	9	10	3	4	3	2	3	4	4	3	4	3	1	1	2	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	2	2	9	10	2	3	2	1	2	3	3	2	3	2	0	1	1	
6	HGV7	0	0	0	0	0	0	1	2	18	21	16	12	15	14	17	15	15	16	14	1	2	0	0	
7	HGV8	0	0	0	0	0	0	1	2	24	27	16	12	15	14	17	15	15	16	14	1	2	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	
10	TAXI	1	0	1	0	0	0	3	9	13	15	2	2	1	2	1	2	2	1	2	1	1	1	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	1	0	0	0	
14	NFB7	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	1	0	0	0	
15	NFB8	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	1	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		5	2	2	2	0	3	19	46	114	125	58	50	53	49	56	56	56	54	54	22	12	5	10	

NOx emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	
LGV3	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	
LGV4	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	
PLB	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	0.982	
LGV6	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	1.650	
HGV7	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	2.204	
HGV8	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	3.046	
FBDD	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	3.748	
MC	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	0.275	
TAXI	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	
PV4	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	
PV5	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	0.853	
NFB6	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	1.788	
NFB7	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	3.470	
NFB8	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	4.721	
FBSD	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	3.646	
Total composite emission factor (g/Veh/km)		0.3635	0.6133	0.2750	0.6133	0.0000	0.4224	0.8414	1.1228	1.5772	1.5943	1.8423	1.7691	1.9059	1.8858	1.9701	1.8608	1.8608	1.9458	1.8325	0.7974	1.0433	0.8838	0.6002	0.9393
Total composite emission factor (g/Veh/mile)		0.59	0.99	0.44	0.99	0.00	0.68	1.36	1.81	2.54	2.57	2.97	2.85	3.07	3.04	3.18	3.00	3.00	3.14	2.96	1.29	1.68	1.43	0.97	1.52

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM16_Lung Hong Street
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	1	1	0	0	0	1	3	6	10	11	15	14	13	13	15	14	15	15	13	8	3	2	0	
2	LGV3	0	0	0	0	0	0	2	3	5	6	8	7	6	6	8	7	7	8	8	6	3	2	0	
3	LGV4	0	0	0	0	0	0	2	4	5	5	7	5	5	6	5	5	6	6	5	4	1	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	2	4	5	5	7	5	5	6	5	5	6	6	5	3	1	0	0	
6	HGV7	0	0	0	0	0	0	2	10	11	5	5	4	4	4	5	5	4	5	2	1	1	0	0	
7	HGV8	0	0	0	0	0	0	1	2	14	15	5	4	4	4	5	5	4	5	2	1	1	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	1	1	0	0	0	0	2	3	6	6	10	9	9	8	10	9	9	10	10	9	3	2	1	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Flow (veh)		2	2	0	0	0	1	12	24	55	59	60	53	49	48	56	53	56	58	42	23	11	3	0	

NOx emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	
LGV3	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	
LGV4	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	1.046	
PLB	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	
LGV6	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	1.668	
HGV7	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	2.231	
HGV8	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	3.091	
FBDD	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	3.813	
MC	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	
TAXI	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	0.514	
PV4	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	0.405	
PV5	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	
NFB6	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	1.814	
NFB7	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	3.514	
NFB8	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	4.793	
FBSD	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	3.697	
Total composite emission factor (g/Veh/km)		0.2776	0.2776	0.0000	0.0000	0.0000	0.0412	1.0055	1.1201	1.6116	1.6135	1.1845	1.2055	1.1700	1.1836	1.1256	1.2055	1.2055	1.1256	1.1786	0.8705	0.8685	1.0530	0.1988	0.0000
Total composite emission factor (g/Veh/mile)		0.45	0.45	0.00	0.00	0.00	0.07	1.62	1.81	2.60	2.60	1.91	1.94	1.89	1.91	1.82	1.94	1.94	1.82	1.90	1.40	1.40	1.70	0.32	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: R4_Internal Road
 Year: 2019

Vehicle Classes	Description	Hour																									
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Flow (veh)		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	0	0	0	0

NOx emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																									
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
PC	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085
LGV3	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489
LGV4	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289
PLB	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973
LGV6	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384
HGV7	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060
HGV8	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811
FBDD	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526
MC	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357
TAXI	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981
PV4	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970
PV5	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173
NFB6	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759
NFB7	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184
NFB8	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972
FBSD	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8.2446	8.2421	8.2596	8.2456	8.2578	8.2607	8.2429	8.2588	8.2526	8.2365	8.2634	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.30	13.29	13.32	13.30	13.32	13.32	13.30	13.32	13.31	13.28	13.33	0.00	0.00	0.00	0.00	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: R6 Internal Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	0	

NOx emission factor (g/Veh/km, EMFAC Veh categories)

Description	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	
PC	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	
LGV3	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	2.489	
LGV4	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	2.289	
PLB	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	1.973	
LGV6	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	
HGV7	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	5.060	
HGV8	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	8.811	
FBDD	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	12.526	
MC	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	
TAXI	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	0.981	
PV4	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	
PV5	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	2.173	
NFB6	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	4.759	
NFB7	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	8.184	
NFB8	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	13.972	
FBSD	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	9.912	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	8.2446	8.2421	8.2596	8.2456	8.2578	8.2607	8.2429	8.2588	8.2526	8.2365	8.2634	0.0000	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.30	13.29	13.32	13.30	13.32	13.32	13.30	13.32	13.31	13.28	13.33	0.00	0.00	0.00	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

0529880 TMFB

Pollutant Name: NO2

Speed km/hr	PC	LGV3	LGV4	PLB	LGV6	HGV7	HGV8	HGV8b	FBDD	MC	TAXI	PV4	PV5	NFB6	NFB7	NFB8	FBSD
	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
10	0.004	0.216	0.192	0.140	0.824	1.370	0.900	0.941	1.604	0.018	0.018	0.144	0.527	1.281	2.107	1.128	0.876
17	0.003	0.166	0.147	0.114	0.642	1.023	0.614	0.638	1.032	0.016	0.014	0.110	0.381	0.907	1.556	0.764	0.610
18	0.003	0.162	0.142	0.111	0.625	0.992	0.589	0.611	0.985	0.016	0.013	0.106	0.368	0.874	1.506	0.732	0.587
27	0.003	0.132	0.115	0.092	0.515	0.793	0.441	0.454	0.714	0.015	0.011	0.084	0.286	0.671	1.195	0.545	0.447
28	0.003	0.130	0.113	0.090	0.506	0.777	0.430	0.442	0.693	0.015	0.011	0.082	0.279	0.656	1.171	0.531	0.437
29	0.003	0.128	0.111	0.088	0.498	0.762	0.419	0.431	0.675	0.015	0.011	0.080	0.273	0.641	1.148	0.517	0.427
30	0.003	0.126	0.108	0.087	0.490	0.748	0.410	0.420	0.657	0.015	0.011	0.078	0.267	0.627	1.126	0.505	0.417
31	0.002	0.123	0.106	0.085	0.481	0.733	0.400	0.410	0.640	0.015	0.011	0.075	0.262	0.614	1.104	0.493	0.409
32	0.002	0.121	0.104	0.084	0.473	0.720	0.392	0.401	0.625	0.015	0.011	0.073	0.257	0.601	1.084	0.482	0.400
33	0.002	0.119	0.102	0.083	0.467	0.708	0.383	0.392	0.610	0.014	0.010	0.072	0.252	0.589	1.066	0.472	0.392
34	0.002	0.118	0.101	0.081	0.460	0.696	0.376	0.383	0.596	0.014	0.010	0.071	0.247	0.578	1.048	0.462	0.385
35	0.002	0.116	0.099	0.080	0.453	0.685	0.368	0.375	0.583	0.014	0.010	0.069	0.243	0.567	1.031	0.453	0.378
36	0.002	0.114	0.098	0.079	0.447	0.675	0.361	0.368	0.570	0.014	0.010	0.068	0.238	0.557	1.014	0.444	0.371
37	0.002	0.113	0.096	0.078	0.442	0.665	0.354	0.360	0.558	0.014	0.010	0.067	0.234	0.547	0.998	0.436	0.364
38	0.002	0.112	0.095	0.076	0.436	0.655	0.348	0.353	0.547	0.014	0.010	0.066	0.230	0.537	0.983	0.428	0.358
39	0.002	0.110	0.093	0.075	0.431	0.646	0.342	0.347	0.536	0.014	0.010	0.065	0.227	0.528	0.969	0.420	0.352
40	0.002	0.109	0.092	0.074	0.425	0.637	0.336	0.340	0.526	0.014	0.010	0.064	0.223	0.520	0.955	0.413	0.347
41	0.002	0.108	0.091	0.073	0.420	0.628	0.331	0.334	0.516	0.014	0.010	0.063	0.219	0.511	0.942	0.406	0.341
42	0.002	0.106	0.090	0.072	0.415	0.620	0.326	0.328	0.506	0.014	0.009	0.062	0.216	0.503	0.929	0.399	0.336
43	0.002	0.105	0.089	0.072	0.411	0.612	0.321	0.323	0.497	0.014	0.009	0.061	0.213	0.496	0.917	0.393	0.331
44	0.002	0.104	0.088	0.071	0.406	0.604	0.316	0.317	0.488	0.014	0.009	0.060	0.210	0.488	0.905	0.387	0.327
45	0.002	0.103	0.087	0.070	0.402	0.597	0.311	0.312	0.480	0.014	0.009	0.059	0.207	0.481	0.893	0.381	0.322
50	0.002	0.098	0.082	0.066	0.382	0.563	0.291	0.289	0.443	0.013	0.009	0.055	0.194	0.449	0.842	0.356	0.302
51	0.002	0.097	0.081	0.066	0.379	0.557	0.287	0.285	0.441	0.013	0.009	0.055	0.192	0.444	0.832	0.351	0.298
52	0.002	0.096	0.080	0.065	0.375	0.551	0.284	0.281	0.440	0.013	0.009	0.054	0.189	0.438	0.823	0.347	0.295
53	0.002	0.096	0.080	0.065	0.372	0.545	0.280	0.277	0.439	0.013	0.009	0.054	0.187	0.433	0.814	0.342	0.292
54	0.002	0.095	0.079	0.064	0.369	0.540	0.277	0.273	0.437	0.013	0.009	0.053	0.185	0.428	0.806	0.338	0.288

EMFAC-HK Model (v 4.1) Key Assumptions:

- Mode: EMFAC
- Calendar Year: 2019
- Temperature and relative humidity: 24 degree C, 77% (2018 average at Tuen Mun Weather Station)
- Vehicle Population (external traffic): Default (i.e. HGV8 emission factors for Roads R1 to R7, R9, R25 to R28)
- Vehicle Population (internal traffic): All HGV8 (year 2019) are of Euro V standard (i.e. HGV8b emission factors for Roads R8, R11, R14, R15, R17 to R22)
- Vehicle Accrual: Default
- Trips: Default (not used. No starting emissions as parking restrictions apply for all identified major roads within the Study Area)
- VKT: Default (not used in EMFAC mode)

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM1_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	16	11	8	5	6	12	32	113	163	176	247	240	209	200	228	223	220	218	236	209	160	51	32	19
2	LGV3	7	5	5	3	3	8	17	29	55	59	76	71	66	63	72	71	70	72	75	66	66	25	13	8
3	LGV4	4	2	2	3	2	7	11	17	36	38	62	58	54	52	59	58	58	59	60	54	54	17	11	6
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	4	2	2	3	2	7	11	17	36	38	57	53	50	48	54	53	54	55	50	51	20	10	6	6
6	HGV7	0	0	0	0	0	0	4	20	286	364	274	254	231	225	261	262	268	251	214	16	12	4	0	0
7	HGV8	0	0	0	0	0	0	10	48	666	831	645	590	565	524	632	621	628	588	496	39	28	10	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	6	5	6	6	6	6	6	6	5	4	4	4
10	TAXI	9	5	6	4	5	7	15	64	88	96	100	103	92	87	99	97	96	99	102	92	76	34	15	5
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
Total Flow (veh)		61	33	30	24	24	47	113	331	1367	1643	1561	1464	1353	1281	1501	1480	1486	1437	1338	612	518	226	141	98

NO2 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002
LGV3	0.096	0.096	0.096	0.096	0.096	0.096	0.097	0.116	0.130	0.132	0.116	0.108	0.106	0.104	0.108	0.108	0.118	0.128	0.123	0.109	0.109	0.098	0.097	0.096	
LGV4	0.080	0.080	0.080	0.080	0.080	0.080	0.081	0.099	0.113	0.115	0.099	0.091	0.090	0.088	0.091	0.091	0.101	0.111	0.106	0.092	0.092	0.082	0.081	0.080	
PLB	0.065	0.065	0.065	0.065	0.065	0.065	0.066	0.080	0.090	0.092	0.080	0.073	0.072	0.071	0.073	0.073	0.081	0.088	0.085	0.074	0.074	0.066	0.066	0.065	
LGV6	0.375	0.372	0.372	0.372	0.372	0.372	0.379	0.453	0.506	0.515	0.453	0.420	0.415	0.406	0.420	0.420	0.460	0.498	0.481	0.425	0.425	0.382	0.379	0.375	
HGV7	0.551	0.545	0.545	0.545	0.545	0.545	0.557	0.685	0.777	0.793	0.685	0.628	0.620	0.604	0.628	0.628	0.696	0.762	0.733	0.637	0.637	0.563	0.557	0.551	
HGV8	0.284	0.280	0.280	0.280	0.280	0.280	0.287	0.368	0.430	0.441	0.368	0.331	0.326	0.316	0.331	0.331	0.376	0.419	0.400	0.336	0.336	0.291	0.287	0.284	
FBDD	0.440	0.439	0.439	0.439	0.439	0.439	0.441	0.583	0.693	0.714	0.583	0.516	0.506	0.488	0.516	0.516	0.596	0.675	0.640	0.526	0.526	0.443	0.441	0.440	
MC	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.015	0.015	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.014	0.014	0.013	0.013	0.013	
TAXI	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.011	0.011	0.010	0.010	0.009	0.009	0.010	0.010	0.010	0.011	0.011	0.010	0.010	0.009	0.009	0.009	
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.055	0.069	0.082	0.084	0.069	0.063	0.062	0.060	0.063	0.063	0.071	0.080	0.075	0.064	0.064	0.055	0.055	0.054	
PV5	0.189	0.187	0.187	0.187	0.187	0.187	0.192	0.243	0.279	0.286	0.243	0.219	0.216	0.210	0.219	0.219	0.247	0.273	0.262	0.223	0.223	0.194	0.192	0.189	
NFB6	0.438	0.433	0.433	0.433	0.433	0.433	0.444	0.567	0.656	0.671	0.567	0.511	0.503	0.488	0.511	0.511	0.578	0.641	0.614	0.520	0.520	0.449	0.444	0.438	
NFB7	0.823	0.814	0.814	0.814	0.814	0.814	0.832	1.031	1.171	1.195	1.031	0.942	0.929	0.905	0.942	0.942	1.048	1.148	1.104	0.955	0.955	0.842	0.832	0.823	
NFB8	0.347	0.342	0.342	0.342	0.342	0.342	0.351	0.453	0.531	0.545	0.453	0.406	0.399	0.387	0.406	0.406	0.462	0.517	0.493	0.413	0.413	0.356	0.351	0.347	
FBSD	0.295	0.292	0.292	0.292	0.292	0.292	0.298	0.378	0.437	0.447	0.378	0.341	0.336	0.327	0.341	0.341	0.385	0.427	0.409	0.347	0.347	0.302	0.298	0.295	
Total composite emission factor (g/Veh/km)		0.1601	0.1200	0.1299	0.1540	0.1357	0.1281	0.1499	0.1641	0.4077	0.4319	0.3295	0.2946	0.2933	0.2859	0.3002	0.3017	0.3413	0.3705	0.3361	0.1553	0.1581	0.1797	0.1961	0.2418
Total composite emission factor (g/Veh/mile)		0.26	0.19	0.21	0.25	0.22	0.21	0.24	0.26	0.66	0.70	0.53	0.48	0.47	0.46	0.48	0.49	0.55	0.60	0.54	0.25	0.29	0.32	0.39	

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM2_Unnamed Road to River Trade Terminal
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	4	3	2	1	1	1	3	5	8	17	13	13	13	15	13	15	17	13	10	7	7	5		
2	LGV3	3	1	1	1	1	1	3	5	5	5	5	4	4	5	5	5	5	4	3	3	3	3		
3	LGV4	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	3	4	3	3	3	2		
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5	LGV6	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	3	4	3	3	3	2		
6	HGV7	0	0	0	0	0	0	2	2	64	69	57	52	38	56	63	54	59	63	65	1	1	0	0	
7	HGV8	0	0	0	0	0	0	6	16	396	406	333	306	277	265	314	311	324	314	331	2	2	1	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	2	1	1	1	1	1	1	2	4	5	5	3	3	3	5	3	3	5	5	3	1	1	1	1
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Flow (veh)		13	7	6	3	3	3	15	32	483	499	425	385	341	347	408	392	410	408	431	29	24	19	17	13

NO2 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.162	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.162	0.162	0.162	0.162	0.162	0.162
LGV4	0.142	0.142	0.142	0.142	0.142	0.142	0.142	0.142	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.142	0.142	0.142	0.142	0.142	0.142
PLB	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.111	0.111	0.111	0.111	0.111	0.111	0.111
LGV6	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.625	0.625	0.625	0.625	0.625	0.625
HGV7	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	1.023	1.023	1.023	1.023	1.023	1.023	1.023	1.023	1.023	1.023	0.992	0.992	0.992	0.992	0.992	0.992	0.992
HGV8	0.589	0.589	0.589	0.589	0.589	0.589	0.589	0.589	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.589	0.589	0.589	0.589	0.589	0.589	0.589
FBDD	0.985	0.985	0.985	0.985	0.985	0.985	0.985	0.985	1.032	1.032	1.032	1.032	1.032	1.032	1.032	1.032	1.032	1.032	0.985	0.985	0.985	0.985	0.985	0.985	0.985
MC	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
TAXI	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.013	0.013	0.013	0.013	0.013	0.013	0.013
PV4	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.106	0.106	0.106	0.106	0.106	0.106	0.106
PV5	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.369	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.369	0.369	0.369	0.369	0.369	0.369	0.369
NFB6	0.874	0.874	0.874	0.874	0.874	0.874	0.874	0.874	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.874	0.874	0.874	0.874	0.874	0.874	0.874
NFB7	1.506	1.506	1.506	1.506	1.506	1.506	1.506	1.506	1.556	1.556	1.556	1.556	1.556	1.556	1.556	1.556	1.556	1.556	1.506	1.506	1.506	1.506	1.506	1.506	1.506
NFB8	0.732	0.732	0.732	0.732	0.732	0.732	0.732	0.732	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.764	0.732	0.732	0.732	0.732	0.732	0.732	0.732
FBSD	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.587	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.587	0.587	0.587	0.587	0.587	0.587	0.587
Total composite emission factor (g/Veh/km)		0.1584	0.1360	0.1582	0.0594	0.0594	0.0594	0.4314	0.4211	0.6460	0.6478	0.6282	0.6349	0.6221	0.6432	0.6388	0.6366	0.6406	0.6388	0.6356	0.1794	0.2152	0.2318	0.1661	0.1576
Total composite emission factor (g/Veh/mile)		0.26	0.22	0.26	0.10	0.10	0.10	0.70	0.68	1.04	1.04	1.01	1.02	1.00	1.04	1.03	1.03	1.03	1.03	0.29	0.35	0.37	0.27	0.25	

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM3_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	12	8	6	4	5	11	29	108	155	168	230	227	196	187	213	210	207	203	219	196	150	44	25	14
2	LGV3	4	4	4	2	2	7	16	26	50	54	71	66	62	59	67	66	65	67	70	62	62	22	10	5
3	LGV4	2	1	1	3	2	7	10	15	33	35	58	55	51	49	56	55	55	56	56	51	51	14	8	4
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	2	1	1	3	2	7	10	15	33	35	53	50	47	45	51	50	50	51	51	47	48	17	7	4
6	HGV7	0	0	0	0	0	0	2	18	222	295	217	202	193	169	198	208	209	188	149	15	11	3	0	0
7	HGV8	0	0	0	0	0	0	4	32	270	425	312	284	288	259	318	310	304	274	165	37	26	9	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	6	5	6	6	6	6	6	6	5	4	4	4
10	TAXI	7	4	5	3	4	6	14	62	84	91	95	100	89	84	94	94	93	94	97	89	75	33	14	4
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
Total Flow (veh)		48	26	24	21	21	44	98	299	884	1144	1136	1079	1012	934	1093	1088	1076	1029	907	583	494	207	124	85

NO2 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
LGV3	0.096	0.096	0.096	0.096	0.096	0.096	0.097	0.113	0.116	0.116	0.116	0.116	0.104	0.104	0.105	0.108	0.108	0.118	0.128	0.123	0.108	0.104	0.098	0.097	0.096
LGV4	0.080	0.080	0.080	0.080	0.080	0.080	0.081	0.096	0.099	0.099	0.099	0.088	0.088	0.089	0.091	0.091	0.101	0.111	0.106	0.091	0.088	0.082	0.081	0.080	0.080
PLB	0.065	0.065	0.065	0.065	0.065	0.065	0.066	0.078	0.080	0.080	0.080	0.071	0.071	0.072	0.073	0.073	0.081	0.088	0.085	0.073	0.071	0.066	0.066	0.065	0.065
LGV6	0.375	0.372	0.372	0.372	0.372	0.372	0.379	0.442	0.453	0.453	0.453	0.406	0.406	0.411	0.420	0.420	0.460	0.498	0.481	0.420	0.406	0.382	0.379	0.375	0.375
HGV7	0.551	0.545	0.545	0.545	0.545	0.545	0.557	0.665	0.685	0.685	0.685	0.604	0.604	0.612	0.628	0.628	0.696	0.762	0.733	0.628	0.604	0.563	0.557	0.551	0.551
HGV8	0.284	0.280	0.280	0.280	0.280	0.280	0.287	0.354	0.368	0.368	0.368	0.316	0.316	0.321	0.331	0.331	0.376	0.419	0.400	0.331	0.316	0.291	0.287	0.284	0.284
FBDD	0.440	0.439	0.439	0.439	0.439	0.439	0.441	0.558	0.583	0.583	0.583	0.488	0.488	0.497	0.516	0.516	0.596	0.675	0.640	0.516	0.488	0.443	0.441	0.440	0.440
MC	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.014	0.014	0.013	0.013	0.013	0.013
TAXI	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.009	0.009	0.009	0.010	0.010	0.010	0.011	0.011	0.010	0.009	0.009	0.009	0.009	0.009
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.055	0.067	0.069	0.069	0.069	0.060	0.060	0.061	0.063	0.063	0.071	0.080	0.075	0.063	0.060	0.055	0.055	0.054	0.054
PV5	0.189	0.187	0.187	0.187	0.187	0.187	0.192	0.234	0.243	0.243	0.243	0.210	0.210	0.213	0.219	0.219	0.247	0.273	0.262	0.219	0.210	0.194	0.192	0.189	0.189
NFB6	0.438	0.433	0.433	0.433	0.433	0.433	0.444	0.547	0.567	0.567	0.567	0.488	0.488	0.496	0.511	0.511	0.578	0.641	0.614	0.511	0.488	0.449	0.444	0.438	0.438
NFB7	0.823	0.814	0.814	0.814	0.814	0.814	0.832	0.998	1.031	1.031	1.031	0.905	0.905	0.917	0.942	0.942	1.048	1.148	1.104	0.942	0.905	0.842	0.832	0.823	0.823
NFB8	0.347	0.342	0.342	0.342	0.342	0.342	0.351	0.436	0.453	0.453	0.453	0.387	0.387	0.393	0.406	0.406	0.462	0.517	0.493	0.406	0.387	0.356	0.351	0.347	0.347
FBSD	0.295	0.292	0.292	0.292	0.292	0.292	0.298	0.364	0.378	0.378	0.378	0.327	0.327	0.331	0.341	0.341	0.385	0.427	0.409	0.341	0.327	0.302	0.298	0.295	0.295
Total composite emission factor (g/Veh/km)		0.1779	0.1307	0.1391	0.1710	0.1500	0.1344	0.1380	0.1475	0.3308	0.3528	0.3080	0.2626	0.2703	0.2678	0.2790	0.2827	0.3179	0.3403	0.2938	0.1550	0.1507	0.1838	0.2093	0.2644
Total composite emission factor (g/Veh/mile)		0.29	0.21	0.22	0.28	0.24	0.22	0.22	0.24	0.53	0.57	0.50	0.42	0.44	0.43	0.45	0.46	0.51	0.55	0.47	0.25	0.30	0.34	0.43	0.43

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM5_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	10	7	5	4	5	11	28	106	152	165	219	217	187	179	203	200	197	193	209	187	142	38	19	9
2	LGV3	2	4	4	2	2	7	16	24	48	52	65	62	58	55	63	62	61	63	64	58	58	18	6	3
3	LGV4	1	1	1	3	2	7	10	14	32	34	54	52	48	46	53	52	52	53	52	48	48	11	5	2
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	7	10	14	32	34	49	47	44	42	48	47	47	48	47	44	45	14	4	2
6	HGV7	0	0	0	0	0	0	2	17	202	251	177	164	157	137	158	170	167	150	137	14	11	3	0	0
7	HGV8	0	0	0	0	0	0	4	28	156	179	80	70	80	73	94	90	64	64	99	31	23	8	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	6	6	5	4	4	4
10	TAXI	5	4	5	3	4	6	14	60	82	89	88	94	84	79	88	88	87	88	90	84	70	29	10	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	5	5	5	5	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	5	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
Total Flow (veh)		40	25	23	21	21	44	97	286	741	845	832	801	744	693	803	804	768	755	798	552	468	186	104	71

NO2 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
LGV3	0.096	0.096	0.096	0.096	0.096	0.096	0.097	0.116	0.118	0.118	0.119	0.106	0.106	0.106	0.108	0.104	0.119	0.119	0.119	0.118	0.118	0.098	0.097	0.096	0.096
LGV4	0.080	0.080	0.080	0.080	0.080	0.080	0.081	0.099	0.101	0.101	0.102	0.090	0.090	0.090	0.091	0.088	0.102	0.102	0.102	0.101	0.101	0.082	0.081	0.080	0.080
PLB	0.065	0.065	0.065	0.065	0.065	0.065	0.066	0.080	0.081	0.081	0.083	0.072	0.072	0.072	0.073	0.071	0.083	0.083	0.083	0.081	0.081	0.066	0.066	0.065	0.065
LGV6	0.375	0.372	0.372	0.372	0.372	0.372	0.379	0.453	0.460	0.460	0.467	0.415	0.415	0.415	0.420	0.406	0.467	0.467	0.467	0.460	0.460	0.382	0.379	0.375	0.375
HGV7	0.551	0.545	0.545	0.545	0.545	0.545	0.557	0.685	0.696	0.696	0.708	0.620	0.620	0.620	0.628	0.604	0.708	0.708	0.708	0.696	0.696	0.563	0.557	0.551	0.551
HGV8	0.284	0.280	0.280	0.280	0.280	0.280	0.287	0.368	0.376	0.376	0.383	0.326	0.326	0.326	0.331	0.316	0.383	0.383	0.383	0.376	0.376	0.291	0.287	0.284	0.284
FBDD	0.440	0.439	0.439	0.439	0.439	0.439	0.441	0.583	0.596	0.596	0.610	0.506	0.506	0.506	0.516	0.488	0.610	0.610	0.610	0.596	0.596	0.443	0.441	0.440	0.440
MC	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.013	0.013	0.013	0.013	0.013
TAXI	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.009	0.009	0.009	0.010	0.009	0.010	0.010	0.010	0.010	0.009	0.009	0.009	0.009	0.009
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.055	0.069	0.071	0.071	0.072	0.062	0.062	0.062	0.063	0.060	0.072	0.072	0.072	0.071	0.071	0.055	0.055	0.054	0.054
PV5	0.189	0.187	0.187	0.187	0.187	0.187	0.192	0.243	0.247	0.247	0.252	0.216	0.216	0.216	0.219	0.210	0.252	0.252	0.252	0.247	0.247	0.194	0.192	0.189	0.189
NFB6	0.438	0.433	0.433	0.433	0.433	0.433	0.444	0.567	0.578	0.578	0.589	0.503	0.503	0.503	0.511	0.498	0.589	0.589	0.589	0.578	0.578	0.449	0.444	0.438	0.438
NFB7	0.823	0.814	0.814	0.814	0.814	0.814	0.832	1.031	1.048	1.048	1.066	0.929	0.929	0.929	0.942	0.905	1.066	1.066	1.066	1.048	1.048	0.842	0.832	0.823	0.823
NFB8	0.347	0.342	0.342	0.342	0.342	0.342	0.351	0.453	0.462	0.462	0.472	0.399	0.399	0.399	0.406	0.387	0.472	0.472	0.472	0.462	0.462	0.356	0.351	0.347	0.347
FBSD	0.295	0.292	0.292	0.292	0.292	0.292	0.298	0.378	0.385	0.385	0.392	0.336	0.336	0.336	0.341	0.327	0.392	0.392	0.392	0.385	0.385	0.302	0.298	0.295	0.295
Total composite emission factor (g/Veh/km)		0.1968	0.1359	0.1451	0.1710	0.1500	0.1344	0.1394	0.1489	0.3238	0.3395	0.2910	0.2446	0.2542	0.2471	0.2536	0.2496	0.2921	0.2832	0.2755	0.1732	0.1771	0.1932	0.2321	0.3005
Total composite emission factor (g/Veh/mile)		0.32	0.22	0.23	0.28	0.24	0.22	0.22	0.24	0.52	0.55	0.47	0.39	0.41	0.40	0.41	0.40	0.47	0.46	0.44	0.28	0.31	0.37	0.48	0.48

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM7, Siu Lang Shui Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	0	0	0	0	0	0	1	4	8	10	7	5	5	5	7	5	7	7	5	1	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	8	15	18	11	9	9	9	11	9	9	11	11	2	0	0	0	
7	HGV8	0	0	0	0	0	0	0	6	13	14	8	7	7	8	7	8	8	8	4	2	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	1	3	6	8	4	2	2	2	4	2	2	4	4	2	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		0	0	0	0	0	0	2	21	47	55	31	24	24	24	31	24	24	31	31	14	3	0	0	

NO2 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																									
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002		
LGV3	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110		
LGV4	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093		
PLB	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075		
LGV6	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431		
HGV7	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646		
HGV8	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342		
FBDD	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536		
MC	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014		
TAXI	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010		
PV4	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065		
PV5	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227		
NFB6	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528	0.528		
NFB7	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969	0.969		
NFB8	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420	0.420		
FBSD	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352	0.352		
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060	0.3455	0.3190	0.3145	0.3227	0.3477	0.3477	0.3477	0.3227	0.3477	0.3227	0.3477	0.3227	0.3227	0.2000	0.2288	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.01	0.56	0.56	0.51	0.51	0.52	0.56	0.56	0.52	0.56	0.52	0.56	0.52	0.52	0.32	0.37	0.00	0.00	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM8_Unnamed Road to Cemetery
 Year: 2019

Vehicle Classes	Description	Hour																									
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1	PC	0	0	0	0	0	0	0	0	2	3	2	1	1	1	2	0	1	2	1	0	1	0	0			
2	LGV3	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	1	1	1	1	0	0	0				
3	LGV4	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0				
4	PLB	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0				
5	LGV6	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0				
6	HGV7	0	0	0	0	0	0	0	1	3	3	2	2	2	2	2	2	2	2	2	0	0	0				
7	HGV8	0	0	0	0	0	0	0	1	2	2	0	1	0	0	1	0	0	0	0	0	0	0				
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
10	TAXI	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	0	1	0	0	0				
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Total Flow (veh)		0	0	0	0	0	0	0	2	11	12	5	5	4	5	5	4	5	4	5	4	5	3	0	1	0	0

NO2 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																									
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
LGV3	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105	0.105
LGV4	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089
PLB	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
LGV6	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411	0.411
HGV7	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612
HGV8	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321	0.321
FBDD	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497	0.497
MC	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
TAXI	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
PV4	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061
PV5	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213	0.213
NFB6	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496	0.496
NFB7	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917	0.917
NFB8	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393	0.393
FBSD	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331	0.331
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.4662	0.2561	0.2605	0.2866	0.3111	0.3327	0.2880	0.2666	0.3884	0.2680	0.3327	0.2666	0.0389	0.0000	0.0021	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.41	0.42	0.43	0.50	0.54	0.43	0.43	0.63	0.43	0.54	0.43	0.06	0.00	0.00	0.00	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM9, Siu Lang Shui Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	0	0	0	0	0	0	1	4	10	13	9	6	6	6	9	5	6	8	9	6	1	1	0	0
2	LGV3	0	0	0	0	0	0	0	0	2	1	2	1	2	2	1	2	2	2	2	2	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	11	13	13	2	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	7	15	16	8	8	7	7	8	8	5	8	8	4	2	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Flow (veh)		0	0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	0	0

NO2 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
LGV3	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	
LGV4	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	
PLB	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	
LGV6	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	
HGV7	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	
HGV8	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	
FBDD	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	
MC	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	
TAXI	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
PV4	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	
PV5	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	
NFB6	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	
NFB7	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	
NFB8	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	
FBSD	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0061	0.3639	0.3146	0.3121	0.3217	0.3498	0.3535	0.3416	0.3217	0.3622	0.3411	0.3308	0.3217	0.1746	0.2328	0.0023	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.59	0.51	0.50	0.52	0.56	0.57	0.55	0.52	0.58	0.55	0.53	0.52	0.28	0.38	0.00	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM10_Lung Fat Street
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	0	0	0	0	0	0	1	4	10	13	9	6	6	9	5	6	8	9	6	1	1	0	0	
2	LGV3	0	0	0	0	0	0	0	2	1	2	1	2	2	1	2	2	2	2	2	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	11	13	13	2	0	0	0	
7	HGV8	0	0	0	0	0	0	0	7	15	16	8	8	7	8	8	5	8	8	4	2	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		0	0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	0	0

NO2 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
LGV3	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	
LGV4	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	
PLB	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	
LGV6	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	0.436	
HGV7	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	
HGV8	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.348	
FBDD	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	0.547	
MC	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	
TAXI	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
PV4	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	
PV5	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	
NFB6	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	0.537	
NFB7	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	0.983	
NFB8	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428	
FBSD	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0061	0.3639	0.3146	0.3121	0.3217	0.3498	0.3535	0.3416	0.3217	0.3622	0.3411	0.3308	0.3217	0.1746	0.2328	0.0023	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.59	0.51	0.50	0.52	0.56	0.57	0.55	0.52	0.58	0.55	0.53	0.52	0.28	0.38	0.00	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM11_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	6	4	3	1	2	8	23	93	128	137	193	196	166	159	178	180	176	169	184	166	129	27	11	7
2	LGV3	2	4	4	2	2	6	13	19	38	43	56	54	50	47	54	54	52	54	55	50	53	18	6	3
3	LGV4	1	1	1	3	2	6	9	10	24	26	48	46	43	41	47	46	47	47	46	43	43	11	5	2
4	PLB	5	3	2	2	2	2	3	6	6	6	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	6	9	10	25	26	43	41	39	37	42	41	42	42	41	39	40	14	4	2
6	HGV7	0	0	0	0	0	0	2	6	177	222	159	149	142	122	140	155	152	132	119	10	10	3	0	0
7	HGV8	0	0	0	0	0	0	4	15	103	121	47	38	50	45	62	58	40	32	67	12	11	7	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	6	6	5	4	4	4
10	TAXI	4	3	3	2	3	5	12	52	67	72	74	81	73	67	74	75	74	74	76	72	63	23	5	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
Total Flow (veh)		35	21	19	17	17	37	85	228	595	684	720	700	649	600	693	704	676	646	688	478	420	168	81	69

NO2 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
LGV3	0.096	0.096	0.096	0.096	0.096	0.096	0.097	0.116	0.118	0.118	0.119	0.106	0.106	0.106	0.108	0.104	0.119	0.119	0.119	0.118	0.118	0.098	0.097	0.096	0.096
LGV4	0.080	0.080	0.080	0.080	0.080	0.080	0.081	0.099	0.101	0.101	0.102	0.090	0.090	0.090	0.091	0.088	0.102	0.102	0.102	0.101	0.101	0.082	0.081	0.080	0.080
PLB	0.065	0.065	0.065	0.065	0.065	0.065	0.066	0.080	0.081	0.081	0.083	0.072	0.072	0.072	0.073	0.071	0.083	0.083	0.083	0.081	0.081	0.066	0.066	0.065	0.065
LGV6	0.375	0.372	0.372	0.372	0.372	0.372	0.379	0.453	0.460	0.460	0.467	0.415	0.415	0.415	0.420	0.406	0.467	0.467	0.467	0.460	0.460	0.382	0.379	0.375	0.375
HGV7	0.551	0.545	0.545	0.545	0.545	0.545	0.557	0.685	0.696	0.696	0.708	0.620	0.620	0.620	0.628	0.604	0.708	0.708	0.708	0.696	0.696	0.563	0.557	0.551	0.551
HGV8	0.284	0.280	0.280	0.280	0.280	0.280	0.287	0.368	0.376	0.376	0.383	0.326	0.326	0.326	0.331	0.316	0.383	0.383	0.383	0.376	0.376	0.291	0.287	0.284	0.284
FBDD	0.440	0.439	0.439	0.439	0.439	0.439	0.441	0.583	0.596	0.596	0.610	0.506	0.506	0.506	0.516	0.488	0.610	0.610	0.610	0.596	0.596	0.443	0.441	0.440	0.440
MC	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.013	0.013	0.013	0.013	0.013
TAXI	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.009	0.009	0.009	0.010	0.009	0.010	0.010	0.010	0.010	0.010	0.009	0.009	0.009	0.009
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.055	0.069	0.071	0.071	0.072	0.062	0.062	0.062	0.063	0.060	0.072	0.072	0.072	0.071	0.071	0.055	0.055	0.054	0.054
PV5	0.189	0.187	0.187	0.187	0.187	0.187	0.192	0.243	0.247	0.247	0.252	0.216	0.216	0.216	0.219	0.210	0.252	0.252	0.252	0.247	0.247	0.194	0.192	0.189	0.189
NFB6	0.438	0.433	0.433	0.433	0.433	0.433	0.444	0.567	0.578	0.578	0.589	0.503	0.503	0.503	0.511	0.488	0.589	0.589	0.589	0.578	0.578	0.449	0.444	0.438	0.438
NFB7	0.823	0.814	0.814	0.814	0.814	0.814	0.832	1.031	1.048	1.048	1.066	0.929	0.929	0.929	0.942	0.905	1.066	1.066	1.066	1.048	1.048	0.842	0.832	0.823	0.823
NFB8	0.347	0.342	0.342	0.342	0.342	0.342	0.351	0.453	0.462	0.462	0.472	0.399	0.399	0.399	0.406	0.387	0.472	0.472	0.472	0.462	0.462	0.356	0.351	0.347	0.347
FBSD	0.295	0.292	0.292	0.292	0.292	0.292	0.298	0.378	0.385	0.385	0.392	0.336	0.336	0.336	0.341	0.327	0.392	0.392	0.392	0.385	0.385	0.302	0.298	0.295	0.295
Total composite emission factor (g/Veh/km)		0.2244	0.1611	0.1745	0.2103	0.1844	0.1447	0.1499	0.1200	0.3309	0.3491	0.2945	0.2459	0.2566	0.2488	0.2562	0.2964	0.2850	0.2763	0.1710	0.1767	0.2117	0.2646	0.3092	0.3092
Total composite emission factor (g/Veh/mile)		0.36	0.26	0.28	0.34	0.30	0.23	0.24	0.19	0.53	0.56	0.47	0.40	0.41	0.40	0.41	0.41	0.41	0.48	0.45	0.28	0.34	0.43	0.50	0.50

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM12_Unnamed Road to EcoPark
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	4	3	2	3	3	3	4	9	14	15	17	15	14	16	15	16	16	16	15	12	10	8	2	
2	LGV3	0	0	0	0	0	1	3	5	8	8	7	6	6	7	7	7	7	7	6	5	0	0		
3	LGV4	0	0	0	0	0	1	4	6	6	6	6	5	5	6	6	5	6	6	5	0	0	0		
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5	LGV6	0	0	0	0	0	1	1	4	6	6	6	5	5	6	6	5	6	6	5	5	0	0		
6	HGV7	0	0	0	0	0	0	0	2	7	8	5	4	4	5	4	4	5	5	2	1	0	0		
7	HGV8	0	0	0	0	0	0	0	6	38	42	25	24	23	21	24	24	19	24	24	15	10	1		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	1	1	2	1	1	1	1	5	9	9	10	10	9	9	10	10	10	10	9	7	6	5		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total Flow (veh)		5	4	4	4	4	7	10	35	88	94	76	72	67	64	74	72	65	74	74	57	45	17	13	2

NO2 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
LGV3	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	
LGV4	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	
PLB	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	
LGV6	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	
HGV7	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	0.733	
HGV8	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	0.400	
FBDD	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	
MC	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	
TAXI	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	
PV4	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	
PV5	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	
NFB6	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	0.614	
NFB7	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	1.104	
NFB8	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	0.493	
FBSD	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	
Total composite emission factor (g/Veh/km)		0.0041	0.0045	0.0066	0.0045	0.0045	0.1040	0.0977	0.1973	0.2839	0.2906	0.2395	0.2370	0.2380	0.2366	0.2406	0.2370	0.2227	0.2406	0.2406	0.1978	0.1864	0.0288	0.0057	0.0025
Total composite emission factor (g/Veh/mile)		0.01	0.01	0.01	0.01	0.01	0.17	0.16	0.32	0.46	0.47	0.39	0.38	0.38	0.39	0.38	0.38	0.36	0.39	0.39	0.32	0.30	0.05	0.01	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM13 Lung Yiu Street
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	4	2	1	1	0	3	10	20	32	34	26	23	22	22	24	23	24	24	22	13	4	6	1	
2	LGV3	1	1	0	1	0	1	5	12	18	19	12	11	10	9	11	11	11	11	12	10	3	3	2	0
3	LGV4	0	0	0	0	0	0	4	6	14	15	10	9	8	7	9	9	9	9	10	8	5	2	1	2
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	4	6	14	15	9	8	7	6	8	8	8	8	9	7	3	2	1	1
6	HGV7	0	0	0	0	0	0	1	4	28	32	21	17	19	18	21	20	20	20	19	3	3	1	0	0
7	HGV8	0	0	0	0	0	0	2	4	38	42	21	17	19	18	21	20	20	19	3	3	1	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0
10	TAXI	2	1	1	0	0	0	5	12	19	21	12	11	10	10	11	11	11	11	12	10	4	3	2	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Flow (veh)		7	4	2	2	0	4	31	70	169	184	118	103	102	97	112	109	109	110	112	64	35	16	13	4

NO2 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
LGV3	0.114	0.114	0.114	0.114	0.114	0.114	0.118	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.121	0.121	0.121	0.119	0.119	0.119	0.119	0.114	
LGV4	0.098	0.098	0.098	0.098	0.098	0.098	0.101	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.104	0.104	0.104	0.102	0.102	0.102	0.102	0.098	
PLB	0.079	0.079	0.079	0.079	0.079	0.079	0.081	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.084	0.084	0.084	0.083	0.083	0.083	0.083	0.079	
LGV6	0.447	0.447	0.447	0.447	0.447	0.447	0.460	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.467	0.473	0.473	0.473	0.467	0.467	0.467	0.467	0.447	
HGV7	0.675	0.675	0.675	0.675	0.675	0.675	0.696	0.708	0.708	0.708	0.708	0.708	0.708	0.708	0.708	0.708	0.720	0.720	0.720	0.708	0.708	0.708	0.708	0.675	
HGV8	0.361	0.361	0.361	0.361	0.361	0.361	0.376	0.383	0.383	0.383	0.383	0.383	0.383	0.383	0.383	0.383	0.392	0.392	0.392	0.383	0.383	0.383	0.383	0.361	
FBDD	0.570	0.570	0.570	0.570	0.570	0.570	0.596	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.625	0.625	0.625	0.610	0.610	0.610	0.610	0.570	
MC	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.014	0.014	0.014	0.014	0.014	
TAXI	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.011	0.011	0.011	0.010	0.010	0.010	0.010	0.010	
PV4	0.068	0.068	0.068	0.068	0.068	0.068	0.071	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.073	0.073	0.073	0.072	0.072	0.072	0.072	0.068	
PV5	0.238	0.238	0.238	0.238	0.238	0.238	0.247	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.257	0.257	0.257	0.252	0.252	0.252	0.252	0.238	
NFB6	0.557	0.557	0.557	0.557	0.557	0.557	0.578	0.589	0.589	0.589	0.589	0.589	0.589	0.589	0.589	0.589	0.601	0.601	0.601	0.589	0.589	0.589	0.589	0.557	
NFB7	1.014	1.014	1.014	1.014	1.014	1.014	1.048	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.066	1.084	1.084	1.084	1.066	1.066	1.066	1.066	1.014	
NFB8	0.444	0.444	0.444	0.444	0.444	0.444	0.462	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.472	0.482	0.482	0.482	0.472	0.472	0.472	0.472	0.444	
FBSD	0.371	0.371	0.371	0.371	0.371	0.371	0.385	0.392	0.392	0.392	0.392	0.392	0.392	0.392	0.392	0.392	0.400	0.400	0.400	0.392	0.392	0.392	0.392	0.371	
Total composite emission factor (g/Veh/km)		0.0206	0.0323	0.0062	0.0584	0.0000	0.0304	0.1404	0.1948	0.2901	0.2941	0.2884	0.2812	0.2984	0.2955	0.2976	0.2957	0.3011	0.2984	0.2894	0.1363	0.1609	0.1643	0.0660	0.1612
Total composite emission factor (g/Veh/mile)		0.03	0.05	0.01	0.09	0.00	0.05	0.23	0.31	0.47	0.47	0.47	0.45	0.48	0.48	0.48	0.48	0.48	0.48	0.47	0.22	0.26	0.11	0.26	

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM14_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	2	2	2	0	2	5	13	73	96	103	167	173	144	137	154	157	153	145	160	144	116	23	5	6
2	LGV3	1	3	4	1	2	5	8	7	20	24	44	43	40	38	43	41	43	43	40	50	15	4	3	
3	LGV4	1	1	1	3	2	6	5	4	10	11	38	37	35	34	38	37	38	36	35	38	9	4	0	
4	PLB	5	3	2	2	2	2	3	6	6	6	12	11	10	10	11	11	11	12	10	8	8	7	6	
5	LGV6	1	1	1	3	2	6	5	4	11	11	34	33	32	31	34	33	34	32	32	37	12	3	1	
6	HGV7	0	0	0	0	0	0	1	2	149	190	138	132	123	104	119	135	132	112	100	7	7	2	0	
7	HGV8	0	0	0	0	0	0	2	11	65	79	26	21	31	27	41	38	20	12	48	9	8	6	2	
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	
9	MC	0	0	0	0	0	0	0	1	1	1	5	5	4	5	5	5	5	5	5	4	4	3	4	
10	TAXI	2	2	2	2	3	5	7	40	48	51	62	70	63	57	63	64	63	63	64	62	59	20	3	
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	5	5	5	5	5	4	4	4	3	2	
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	3	2	
13	NFB6	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	
14	NFB7	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	
15	NFB8	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	
Total Flow (veh)		28	17	17	15	17	33	54	158	426	500	602	597	547	503	581	595	567	536	576	414	385	152	78	65

NO2 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
LGV3	0.096	0.096	0.096	0.096	0.096	0.096	0.097	0.116	0.118	0.118	0.119	0.106	0.106	0.106	0.108	0.104	0.119	0.119	0.119	0.118	0.118	0.098	0.097	0.096	
LGV4	0.080	0.080	0.080	0.080	0.080	0.080	0.081	0.099	0.101	0.101	0.102	0.090	0.090	0.090	0.091	0.088	0.102	0.102	0.102	0.101	0.101	0.082	0.081	0.080	
PLB	0.065	0.065	0.065	0.065	0.065	0.065	0.066	0.080	0.081	0.081	0.083	0.072	0.072	0.072	0.073	0.071	0.083	0.083	0.083	0.081	0.081	0.066	0.066	0.065	
LGV6	0.375	0.372	0.372	0.372	0.372	0.372	0.379	0.453	0.460	0.460	0.467	0.415	0.415	0.415	0.420	0.406	0.467	0.467	0.467	0.460	0.460	0.382	0.379	0.375	
HGV7	0.551	0.545	0.545	0.545	0.545	0.545	0.557	0.685	0.696	0.696	0.708	0.620	0.620	0.620	0.628	0.604	0.708	0.708	0.708	0.696	0.696	0.563	0.557	0.551	
HGV8	0.284	0.280	0.280	0.280	0.280	0.280	0.287	0.368	0.376	0.376	0.383	0.326	0.326	0.326	0.331	0.316	0.383	0.383	0.383	0.376	0.376	0.291	0.287	0.284	
FBDD	0.440	0.439	0.439	0.439	0.439	0.439	0.441	0.583	0.596	0.596	0.610	0.506	0.506	0.506	0.516	0.488	0.610	0.610	0.610	0.596	0.596	0.443	0.441	0.440	
MC	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.013	0.013	0.013		
TAXI	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.009	0.009	0.009	0.010	0.009	0.010	0.010	0.010	0.010	0.009	0.009	0.009		
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.055	0.069	0.071	0.071	0.072	0.062	0.062	0.062	0.063	0.060	0.072	0.072	0.072	0.071	0.071	0.055	0.055	0.054	
PV5	0.189	0.187	0.187	0.187	0.187	0.187	0.192	0.243	0.247	0.247	0.252	0.216	0.216	0.216	0.219	0.210	0.252	0.252	0.252	0.247	0.247	0.194	0.192	0.189	
NFB6	0.438	0.433	0.433	0.433	0.433	0.433	0.444	0.567	0.578	0.578	0.589	0.503	0.503	0.503	0.511	0.488	0.589	0.589	0.589	0.578	0.578	0.449	0.444	0.438	
NFB7	0.823	0.814	0.814	0.814	0.814	0.814	0.832	1.031	1.048	1.048	1.066	0.929	0.929	0.929	0.942	0.905	1.066	1.066	1.066	1.048	1.048	0.842	0.832	0.823	
NFB8	0.347	0.342	0.342	0.342	0.342	0.342	0.351	0.453	0.462	0.462	0.472	0.399	0.399	0.399	0.406	0.387	0.472	0.472	0.472	0.462	0.462	0.356	0.351	0.347	
FBSD	0.295	0.292	0.292	0.292	0.292	0.292	0.298	0.378	0.385	0.385	0.392	0.336	0.336	0.336	0.341	0.327	0.392	0.392	0.392	0.385	0.385	0.302	0.298	0.295	
Total composite emission factor (g/Veh/km)		0.2762	0.1926	0.1944	0.2319	0.1844	0.1591	0.1708	0.0897	0.3491	0.3712	0.2957	0.2462	0.2560	0.2472	0.2550	0.2525	0.2965	0.2833	0.2748	0.1767	0.1783	0.2201	0.2997	0.3199
Total composite emission factor (g/Veh/mile)		0.45	0.31	0.31	0.37	0.30	0.26	0.28	0.14	0.56	0.60	0.48	0.40	0.41	0.41	0.41	0.48	0.46	0.44	0.29	0.29	0.35	0.48	0.52	

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM15_Lung Yiu Street
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	3	1	1	1	0	2	7	14	22	23	11	9	9	9	9	9	9	9	9	9	5	1	4	1
2	LGV3	1	1	0	1	0	1	3	9	13	13	4	4	3	3	4	4	3	4	4	0	1	2	0	
3	LGV4	0	0	0	0	0	0	2	2	9	10	3	4	3	2	3	4	4	3	4	3	1	1	1	2
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	2	2	9	10	2	3	2	1	2	3	3	2	3	2	0	1	1	1
6	HGV7	0	0	0	0	0	0	1	2	18	21	16	12	15	14	17	15	15	16	14	1	2	0	0	0
7	HGV8	0	0	0	0	0	0	1	2	24	27	16	12	15	14	17	15	15	16	14	1	2	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0
10	TAXI	1	0	1	0	0	0	3	9	13	15	2	2	1	2	1	2	2	1	2	1	1	1	1	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0
Total Flow (veh)		5	2	2	2	0	3	19	46	114	125	58	50	53	49	56	56	56	54	54	22	12	5	10	4

NO2 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
LGV3	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103
LGV4	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087
PLB	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
LGV6	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402	0.402
HGV7	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597
HGV8	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311
FBDD	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
MC	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
TAXI	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
PV4	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059
PV5	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207
NFB6	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481
NFB7	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893	0.893
NFB8	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381	0.381
FBSD	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322	0.322
Total composite emission factor (g/Veh/km)		0.0237	0.0525	0.0056	0.0525	0.0000	0.0357	0.1177	0.1596	0.2423	0.2468	0.3071	0.2933	0.3187	0.3143	0.3322	0.3105	0.3105	0.3277	0.3052	0.1102	0.1613	0.1205	0.0726	0.1443
Total composite emission factor (g/Veh/mile)		0.04	0.08	0.01	0.08	0.00	0.06	0.19	0.26	0.39	0.40	0.50	0.47	0.51	0.54	0.50	0.50	0.53	0.49	0.18	0.26	0.19	0.12	0.23	

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM16_Lung Hong Street
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	1	1	0	0	0	1	3	6	10	11	15	14	13	13	15	14	17	15	13	8	3	2	0	
2	LGV3	0	0	0	0	0	0	2	3	5	6	8	7	6	6	8	7	7	8	8	6	3	2	0	
3	LGV4	0	0	0	0	0	0	2	4	5	5	7	5	5	6	5	5	6	6	5	4	1	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	2	4	5	5	7	5	5	6	5	5	6	6	5	3	1	0	0	
6	HGV7	0	0	0	0	0	0	2	10	11	5	5	4	4	4	5	5	4	5	2	1	1	0	0	
7	HGV8	0	0	0	0	0	0	1	2	14	15	5	4	4	4	5	5	4	5	2	1	1	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	1	1	0	0	0	0	2	3	6	6	10	9	9	8	10	9	9	10	10	9	3	2	1	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Flow (veh)		2	2	0	0	0	1	12	24	55	59	60	53	49	48	56	53	56	58	42	23	11	3	0	

NO2 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	
LGV3	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	
LGV4	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	
PLB	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	
LGV6	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	0.406	
HGV7	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	
HGV8	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	
FBDD	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	
MC	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	
TAXI	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	
PV4	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	
PV5	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	
NFB6	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	
NFB7	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	0.905	
NFB8	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	
FBSD	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	0.327	
Total composite emission factor (g/Veh/km)		0.0057	0.0057	0.0000	0.0000	0.0000	0.0021	0.1280	0.1737	0.2460	0.2467	0.1799	0.1828	0.1768	0.1803	0.1675	0.1828	0.1828	0.1675	0.1776	0.1201	0.1237	0.1497	0.0045	0.0000
Total composite emission factor (g/Veh/mile)		0.01	0.01	0.00	0.00	0.00	0.21	0.28	0.40	0.40	0.29	0.29	0.29	0.27	0.29	0.29	0.27	0.29	0.27	0.19	0.20	0.24	0.01	0.00	

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

0529880 TMFB

Pollutant Name: NO

Speed km/hr	PC ALL	LGV3 ALL	LGV4 ALL	PLB ALL	LGV6 ALL	HGV7 ALL	HGV8 ALL	HGV8b ALL	FBDD ALL	MC ALL	TAXI ALL	PV4 ALL	PV5 ALL	NFB6 ALL	NFB7 ALL	NFB8 ALL	FBSD ALL
10	0.081	2.273	2.097	1.833	2.559	3.690	7.911	6.088	10.922	0.340	0.964	0.826	1.645	3.477	6.077	12.845	9.036
17	0.061	1.749	1.605	1.487	1.994	2.756	5.398	4.124	7.027	0.314	0.752	0.632	1.188	2.462	4.488	8.697	6.299
18	0.059	1.700	1.558	1.451	1.941	2.671	5.180	3.955	6.709	0.311	0.732	0.612	1.147	2.372	4.344	8.339	6.060
27	0.049	1.391	1.257	1.198	1.599	2.135	3.876	4.858	0.288	0.614	0.482	0.891	1.822	3.447	6.202	4.617	
28	0.048	1.367	1.232	1.176	1.571	2.092	3.778	2.859	4.721	0.286	0.605	0.471	0.871	1.779	3.376	6.042	4.508
29	0.047	1.343	1.209	1.154	1.545	2.052	3.686	2.787	4.593	0.284	0.598	0.460	0.852	1.739	3.309	5.892	4.405
30	0.046	1.321	1.187	1.134	1.520	2.013	3.599	2.718	4.473	0.282	0.591	0.450	0.834	1.701	3.246	5.750	4.307
31	0.046	1.296	1.157	1.114	1.493	1.974	3.518	2.653	4.360	0.280	0.584	0.431	0.817	1.665	3.184	5.618	4.216
32	0.045	1.276	1.138	1.096	1.470	1.940	3.441	2.592	4.253	0.278	0.576	0.422	0.801	1.631	3.127	5.492	4.129
33	0.044	1.257	1.119	1.078	1.448	1.907	3.369	2.534	4.153	0.277	0.569	0.414	0.785	1.599	3.073	5.374	4.048
34	0.044	1.239	1.101	1.060	1.428	1.876	3.300	2.479	4.057	0.275	0.562	0.406	0.771	1.568	3.021	5.262	3.970
35	0.043	1.221	1.083	1.044	1.408	1.846	3.235	2.427	3.967	0.273	0.555	0.399	0.757	1.539	2.972	5.156	3.896
36	0.043	1.205	1.067	1.028	1.389	1.817	3.174	2.378	3.881	0.272	0.548	0.391	0.743	1.511	2.924	5.055	3.826
37	0.042	1.189	1.051	1.013	1.371	1.790	3.115	2.330	3.800	0.270	0.542	0.385	0.730	1.484	2.879	4.960	3.760
38	0.042	1.174	1.036	0.998	1.353	1.764	3.059	2.285	3.722	0.269	0.536	0.378	0.718	1.459	2.836	4.869	3.696
39	0.041	1.159	1.022	0.984	1.337	1.739	3.006	2.242	3.649	0.268	0.530	0.372	0.706	1.434	2.794	4.783	3.636
40	0.041	1.145	1.008	0.971	1.321	1.715	2.956	2.201	3.578	0.266	0.525	0.366	0.695	1.411	2.755	4.700	3.578
41	0.040	1.132	0.995	0.958	1.305	1.691	2.908	2.161	3.510	0.265	0.519	0.361	0.685	1.388	2.716	4.622	3.523
42	0.040	1.119	0.982	0.946	1.290	1.669	2.861	2.123	3.446	0.264	0.514	0.355	0.674	1.367	2.679	4.546	3.470
43	0.039	1.106	0.970	0.934	1.276	1.648	2.817	2.087	3.384	0.263	0.509	0.350	0.664	1.346	2.644	4.475	3.419
44	0.039	1.094	0.958	0.923	1.262	1.627	2.775	2.052	3.325	0.262	0.505	0.345	0.655	1.326	2.609	4.406	3.370
45	0.039	1.083	0.947	0.912	1.248	1.607	2.735	2.018	3.268	0.261	0.500	0.340	0.646	1.307	2.576	4.340	3.324
50	0.037	1.031	0.895	0.868	1.187	1.516	2.555	1.868	3.015	0.257	0.479	0.319	0.605	1.220	2.427	4.049	3.116
51	0.037	1.022	0.887	0.860	1.176	1.500	2.524	1.841	3.005	0.256	0.476	0.316	0.598	1.204	2.400	3.997	3.079
52	0.037	1.014	0.879	0.853	1.165	1.484	2.493	1.815	2.995	0.256	0.472	0.312	0.590	1.189	2.374	3.947	3.043
53	0.036	1.007	0.871	0.847	1.154	1.469	2.463	1.790	2.986	0.255	0.469	0.309	0.584	1.175	2.348	3.899	3.009
54	0.036	0.999	0.864	0.841	1.144	1.454	2.435	1.765	2.977	0.255	0.466	0.306	0.577	1.160	2.324	3.853	2.975

EMFAC-HK Model (v 4.1) Key Assumptions:

Mode: EMFAC

Calendar Year: 2019

Temperature and relative humidity: 24 degree C, 77% (2018 average at Tuen Mun Weather Station)

Vehicle Population (external traffic): Default (i.e. HGV8 emission factors for Roads R1 to R7, R9, R25 to R28)

Vehicle Population (internal traffic): All HGV8 (year 2019) are of Euro V standard (i.e. HGV8b emission factors for Roads R8, R11, R14, R15, R17 to R22)

Vehicle Accrual: Default

Trips: Default (not used. No starting emissions as parking restrictions apply for all identified major roads within the Study Area)

VKT: Default (not used in EMFAC mode)

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM1_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	16	11	8	5	6	12	32	113	163	176	247	240	209	200	228	223	220	218	236	209	160	51	32	19
2	LGV3	7	5	5	3	3	8	17	29	55	59	76	71	66	63	72	71	70	72	75	66	66	25	13	8
3	LGV4	4	2	2	3	2	7	11	17	36	38	62	58	54	52	59	58	58	59	60	54	54	17	11	6
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	4	2	2	3	2	7	11	17	36	38	57	53	50	48	54	53	53	54	55	50	51	20	10	6
6	HGV7	0	0	0	0	0	0	4	20	286	364	274	254	231	225	261	262	268	251	214	16	12	4	0	0
7	HGV8	0	0	0	0	0	0	10	48	666	831	645	590	565	524	632	621	628	588	496	39	28	10	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	6	5	6	6	6	6	6	6	5	4	4	4
10	TAXI	9	5	6	4	5	7	15	64	88	96	100	103	92	87	99	97	96	99	102	92	76	34	15	5
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
Total Flow (veh)		61	33	30	24	24	47	113	331	1367	1643	1561	1464	1353	1281	1501	1480	1486	1437	1338	612	518	226	141	98

NO emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.037	0.036	0.036	0.036	0.036	0.037	0.043	0.048	0.049	0.043	0.040	0.040	0.039	0.040	0.040	0.044	0.047	0.046	0.041	0.041	0.041	0.037	0.037	0.037	
LGV3	1.014	1.007	1.007	1.007	1.007	1.007	1.022	1.221	1.367	1.391	1.221	1.132	1.119	1.094	1.132	1.132	1.239	1.343	1.296	1.145	1.145	1.031	1.022	1.014	
LGV4	0.879	0.871	0.871	0.871	0.871	0.871	0.887	1.083	1.232	1.257	1.083	0.995	0.982	0.958	0.995	0.995	1.101	1.209	1.157	1.008	1.008	0.895	0.887	0.879	
PLB	0.853	0.847	0.847	0.847	0.847	0.847	0.860	1.044	1.176	1.198	1.044	0.958	0.946	0.923	0.958	0.958	1.060	1.154	1.114	0.971	0.971	0.868	0.860	0.853	
LGV6	1.165	1.154	1.154	1.154	1.154	1.154	1.176	1.408	1.571	1.599	1.408	1.305	1.290	1.262	1.305	1.305	1.428	1.545	1.493	1.321	1.321	1.187	1.176	1.165	
HGV7	1.484	1.469	1.469	1.469	1.469	1.469	1.500	1.846	2.092	2.135	1.846	1.691	1.669	1.627	1.691	1.691	1.876	2.052	1.974	1.715	1.715	1.516	1.500	1.484	
HGV8	2.493	2.463	2.463	2.463	2.463	2.463	2.524	3.235	3.778	3.876	3.235	2.908	2.861	2.775	2.908	2.908	3.300	3.686	3.518	2.956	2.956	2.555	2.524	2.493	
FBDD	2.995	2.986	2.986	2.986	2.986	2.986	3.005	3.967	4.721	4.858	3.967	3.510	3.446	3.325	3.510	3.510	4.057	4.593	4.360	3.578	3.578	3.015	3.005	2.995	
MC	0.256	0.255	0.255	0.255	0.255	0.255	0.256	0.273	0.286	0.288	0.273	0.265	0.264	0.262	0.265	0.265	0.275	0.284	0.280	0.266	0.266	0.257	0.256	0.256	
TAXI	0.472	0.469	0.469	0.469	0.469	0.469	0.476	0.555	0.605	0.614	0.555	0.519	0.514	0.505	0.519	0.519	0.562	0.598	0.584	0.525	0.525	0.479	0.476	0.472	
PV4	0.312	0.309	0.309	0.309	0.309	0.309	0.316	0.399	0.471	0.482	0.399	0.361	0.355	0.345	0.361	0.361	0.406	0.460	0.431	0.366	0.366	0.319	0.316	0.312	
PV5	0.590	0.584	0.584	0.584	0.584	0.584	0.598	0.757	0.871	0.891	0.757	0.685	0.674	0.655	0.685	0.685	0.771	0.852	0.817	0.695	0.695	0.605	0.598	0.590	
NFB6	1.189	1.175	1.175	1.175	1.175	1.175	1.204	1.539	1.779	1.822	1.539	1.388	1.367	1.326	1.388	1.388	1.568	1.739	1.665	1.411	1.411	1.220	1.204	1.189	
NFB7	2.374	2.348	2.348	2.348	2.348	2.348	2.400	2.972	3.376	3.447	2.972	2.716	2.679	2.609	2.716	2.716	3.021	3.309	3.184	2.755	2.755	2.427	2.400	2.374	
NFB8	3.947	3.899	3.899	3.899	3.899	3.899	3.997	5.156	6.042	6.202	5.156	4.622	4.546	4.406	4.622	4.622	5.262	5.892	5.618	4.700	4.700	4.049	3.997	3.947	
FBSD	3.043	3.009	3.009	3.009	3.009	3.009	3.079	3.896	4.508	4.617	3.896	3.523	3.470	3.370	3.523	3.523	3.970	4.405	4.216	3.578	3.578	3.116	3.079	3.043	
Total composite emission factor (g/Veh/km)		1.0316	0.8420	0.9100	0.9700	0.9066	0.8101	0.9696	1.1078	2.5327	2.6691	2.0294	1.8064	1.8137	1.7496	1.8541	1.8544	2.1017	2.2936	2.0763	0.9915	1.0015	1.1026	1.1987	1.4107
Total composite emission factor (g/Veh/mile)		1.66	1.36	1.47	1.56	1.46	1.31	1.56	1.79	4.08	4.31	3.27	2.91	2.93	2.82	2.99	2.99	3.39	3.70	3.35	1.60	1.62	1.78	1.93	2.28

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM2_Unnamed Road to River Trade Terminal
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	4	3	2	1	1	1	3	5	8	10	17	13	13	13	15	13	15	17	13	10	7	7	5	
2	LGV3	3	1	1	1	1	1	1	3	5	5	5	5	4	4	5	5	5	5	4	3	3	3	3	
3	LGV4	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	3	3	4	3	3	3	2	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	3	4	3	3	3	2		
6	HGV7	0	0	0	0	0	0	2	2	64	69	57	52	38	56	63	54	59	63	65	1	1	1	0	
7	HGV8	0	0	0	0	0	0	6	16	396	406	333	306	277	265	314	311	324	314	331	2	2	1	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	2	1	1	1	1	1	1	2	4	5	5	3	3	3	5	3	3	5	5	3	1	1	1	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		13	7	6	3	3	3	15	32	483	499	425	385	341	347	408	392	410	408	431	29	24	19	17	13

NO emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																									
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
PC	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.059	0.059	0.059	0.059	0.059		
LGV3	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.700	1.749	1.749	1.749	1.749	1.749	1.749	1.749	1.749	1.749	1.749	1.749	1.700	1.700	1.700	1.700	1.700		
LGV4	1.558	1.558	1.558	1.558	1.558	1.558	1.558	1.558	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.605	1.558	1.558	1.558	1.558	1.558		
PLB	1.451	1.451	1.451	1.451	1.451	1.451	1.451	1.451	1.487	1.487	1.487	1.487	1.487	1.487	1.487	1.487	1.487	1.487	1.487	1.451	1.451	1.451	1.451	1.451		
LGV6	1.941	1.941	1.941	1.941	1.941	1.941	1.941	1.941	1.994	1.994	1.994	1.994	1.994	1.994	1.994	1.994	1.994	1.994	1.994	1.941	1.941	1.941	1.941	1.941		
HGV7	2.671	2.671	2.671	2.671	2.671	2.671	2.671	2.671	2.756	2.756	2.756	2.756	2.756	2.756	2.756	2.756	2.756	2.756	2.756	2.671	2.671	2.671	2.671	2.671		
HGV8	5.180	5.180	5.180	5.180	5.180	5.180	5.180	5.180	5.398	5.398	5.398	5.398	5.398	5.398	5.398	5.398	5.398	5.398	5.398	5.180	5.180	5.180	5.180	5.180		
FBDD	6.709	6.709	6.709	6.709	6.709	6.709	6.709	6.709	7.027	7.027	7.027	7.027	7.027	7.027	7.027	7.027	7.027	7.027	7.027	6.709	6.709	6.709	6.709	6.709		
MC	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.314	0.311	0.311	0.311	0.311	0.311		
TAXI	0.732	0.732	0.732	0.732	0.732	0.732	0.732	0.732	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.752	0.732	0.732	0.732	0.732	0.732		
PV4	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.612	0.632	0.632	0.632	0.632	0.632	0.632	0.632	0.632	0.632	0.632	0.632	0.612	0.612	0.612	0.612	0.612		
PV5	1.147	1.147	1.147	1.147	1.147	1.147	1.147	1.147	1.188	1.188	1.188	1.188	1.188	1.188	1.188	1.188	1.188	1.188	1.188	1.147	1.147	1.147	1.147	1.147		
NFB6	2.372	2.372	2.372	2.372	2.372	2.372	2.372	2.372	2.462	2.462	2.462	2.462	2.462	2.462	2.462	2.462	2.462	2.462	2.462	2.372	2.372	2.372	2.372	2.372		
NFB7	4.344	4.344	4.344	4.344	4.344	4.344	4.344	4.344	4.488	4.488	4.488	4.488	4.488	4.488	4.488	4.488	4.488	4.488	4.488	4.344	4.344	4.344	4.344	4.344		
NFB8	8.339	8.339	8.339	8.339	8.339	8.339	8.339	8.339	8.697	8.697	8.697	8.697	8.697	8.697	8.697	8.697	8.697	8.697	8.697	8.339	8.339	8.339	8.339	8.339		
FBSD	6.060	6.060	6.060	6.060	6.060	6.060	6.060	6.060	6.299	6.299	6.299	6.299	6.299	6.299	6.299	6.299	6.299	6.299	6.299	6.060	6.060	6.060	6.060	6.060		
Total composite emission factor (g/Veh/km)		1.0614	0.8726	1.0082	0.8304	0.8304	0.8304	0.8304	2.8351	3.1897	4.8385	4.8207	4.6648	4.7212	4.7531	4.6272	4.6392	4.7198	4.7174	4.6392	4.6280	1.1480	1.3187	1.2943	0.9848	1.0096
Total composite emission factor (g/Veh/mile)		1.71	1.41	1.63	1.34	1.34	1.34	1.34	4.57	5.14	7.80	7.78	7.52	7.61	7.67	7.46	7.48	7.61	7.61	7.48	7.46	1.85	2.13	2.09	1.59	1.63

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM3_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	12	8	6	4	5	11	29	108	155	168	230	227	196	187	213	210	207	203	219	196	150	44	25	14
2	LGV3	4	4	4	2	2	7	16	26	50	54	71	66	62	59	67	66	65	67	70	62	62	22	10	5
3	LGV4	2	1	1	3	2	7	10	15	33	35	58	55	51	49	56	55	55	56	56	51	51	14	8	4
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	2	1	1	3	2	7	10	15	33	35	53	50	47	45	51	50	51	51	51	47	48	17	7	4
6	HGV7	0	0	0	0	0	0	2	18	222	295	217	202	193	169	198	208	209	188	149	15	11	3	0	0
7	HGV8	0	0	0	0	0	0	4	32	270	425	312	284	288	259	318	310	304	274	165	37	26	9	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	6	5	6	6	6	6	6	6	5	4	4	4
10	TAXI	7	4	5	3	4	6	14	62	84	91	95	100	89	84	94	94	93	94	97	89	75	33	14	4
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	5	5	4	4	4	3	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	5	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
Total Flow (veh)		48	26	24	21	21	44	98	299	884	1144	1136	1079	1012	934	1093	1088	1076	1029	907	583	494	207	124	85

NO emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.037	0.036	0.036	0.036	0.036	0.036	0.037	0.042	0.043	0.043	0.043	0.043	0.039	0.039	0.039	0.040	0.040	0.044	0.047	0.046	0.040	0.039	0.037	0.037	0.037
LGV3	1.014	1.007	1.007	1.007	1.007	1.007	1.022	1.189	1.221	1.221	1.221	1.094	1.094	1.106	1.132	1.132	1.239	1.343	1.296	1.132	1.094	1.031	1.022	1.014	
LGV4	0.879	0.871	0.871	0.871	0.871	0.871	0.887	1.051	1.083	1.083	1.083	0.958	0.958	0.970	0.995	0.995	1.101	1.209	1.157	0.995	0.958	0.895	0.887	0.879	
PLB	0.853	0.847	0.847	0.847	0.847	0.847	0.860	1.013	1.044	1.044	1.044	0.923	0.923	0.934	0.958	0.958	1.060	1.154	1.114	0.958	0.923	0.868	0.860	0.853	
LGV6	1.165	1.154	1.154	1.154	1.154	1.154	1.176	1.371	1.408	1.408	1.408	1.262	1.262	1.276	1.305	1.305	1.428	1.545	1.493	1.305	1.262	1.187	1.176	1.165	
HGV7	1.484	1.469	1.469	1.469	1.469	1.469	1.500	1.790	1.846	1.846	1.846	1.627	1.627	1.648	1.691	1.691	1.876	2.052	1.974	1.691	1.627	1.516	1.500	1.484	
HGV8	2.493	2.463	2.463	2.463	2.463	2.463	2.524	3.115	3.235	3.235	3.235	2.775	2.775	2.817	2.908	2.908	3.300	3.686	3.518	2.908	2.775	2.555	2.524	2.493	
FBDD	2.995	2.986	2.986	2.986	2.986	2.986	3.005	3.800	3.967	3.967	3.967	3.325	3.325	3.384	3.510	3.510	4.057	4.593	4.360	3.510	3.325	3.015	3.005	2.995	
MC	0.256	0.255	0.255	0.255	0.255	0.255	0.256	0.270	0.273	0.273	0.273	0.262	0.262	0.263	0.265	0.265	0.275	0.284	0.280	0.265	0.262	0.257	0.256	0.256	
TAXI	0.472	0.469	0.469	0.469	0.469	0.469	0.476	0.542	0.555	0.555	0.555	0.505	0.505	0.509	0.519	0.519	0.562	0.598	0.584	0.519	0.505	0.479	0.476	0.472	
PV4	0.312	0.309	0.309	0.309	0.309	0.309	0.316	0.385	0.399	0.399	0.399	0.345	0.345	0.350	0.361	0.361	0.406	0.460	0.431	0.361	0.345	0.319	0.316	0.312	
PV5	0.590	0.584	0.584	0.584	0.584	0.584	0.598	0.730	0.757	0.757	0.757	0.655	0.655	0.664	0.685	0.685	0.771	0.852	0.817	0.685	0.655	0.605	0.598	0.590	
NFB6	1.189	1.175	1.175	1.175	1.175	1.175	1.204	1.484	1.539	1.539	1.539	1.326	1.326	1.346	1.388	1.388	1.568	1.739	1.665	1.388	1.326	1.220	1.204	1.189	
NFB7	2.374	2.348	2.348	2.348	2.348	2.348	2.400	2.879	2.972	2.972	2.972	2.609	2.609	2.644	2.716	2.716	3.021	3.309	3.184	2.716	2.609	2.427	2.400	2.374	
NFB8	3.947	3.899	3.899	3.899	3.899	3.899	3.997	4.960	5.156	5.156	5.156	4.406	4.406	4.475	4.622	4.622	5.262	5.892	5.618	4.622	4.406	4.049	3.997	3.947	
FBSD	3.043	3.009	3.009	3.009	3.009	3.009	3.079	3.760	3.896	3.896	3.896	3.370	3.370	3.419	3.523	3.523	3.970	4.405	4.216	3.523	3.370	3.116	3.079	3.043	
Total composite emission factor (g/Veh/km)		1.1398	0.9299	0.9885	1.0365	0.9641	0.8310	0.8954	0.9753	1.7822	1.9577	1.7304	1.4671	1.5221	1.5218	1.5989	1.5940	1.7910	1.9346	1.6146	0.9900	0.9563	1.1354	1.2825	1.5349
Total composite emission factor (g/Veh/mile)		1.84	1.50	1.59	1.67	1.56	1.34	1.44	1.57	2.87	3.16	2.79	2.37	2.45	2.58	2.57	2.89	3.12	2.60	1.60	1.54	1.83	2.07	2.48	

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM5_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
1	PC	10	7	5	4	5	11	28	106	152	165	219	217	187	179	203	200	197	193	209	187	142	38	19	9
2	LGV3	2	4	4	2	2	7	16	24	48	52	65	62	58	55	63	62	61	63	64	58	58	18	6	3
3	LGV4	1	1	1	3	2	7	10	14	32	34	54	52	48	46	53	52	52	53	52	48	48	11	5	2
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	7	10	14	32	34	49	47	44	42	48	47	47	48	47	44	45	14	4	2
6	HGV7	0	0	0	0	0	0	2	17	202	251	177	164	157	137	158	170	167	150	137	14	11	3	0	0
7	HGV8	0	0	0	0	0	0	4	28	156	179	80	70	80	73	94	90	64	64	99	31	23	8	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	6	6	5	4	4	4
10	TAXI	5	4	5	3	4	6	14	60	82	89	88	94	84	79	88	88	87	88	90	84	70	29	10	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	5	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
Total Flow (veh)		40	25	23	21	21	44	97	286	741	845	832	801	744	693	803	804	768	755	798	552	468	186	104	71

NO emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
PC	0.037	0.036	0.036	0.036	0.036	0.036	0.037	0.043	0.044	0.044	0.044	0.044	0.040	0.040	0.040	0.039	0.044	0.044	0.044	0.044	0.044	0.044	0.037	0.037	0.037
LGV3	1.014	1.007	1.007	1.007	1.007	1.007	1.022	1.221	1.239	1.239	1.257	1.119	1.119	1.119	1.132	1.094	1.257	1.257	1.257	1.239	1.239	1.031	1.022	1.014	
LGV4	0.879	0.871	0.871	0.871	0.871	0.871	0.887	1.083	1.101	1.101	1.119	0.982	0.982	0.982	0.995	0.958	1.119	1.119	1.119	1.101	1.101	0.895	0.887	0.879	
PLB	0.853	0.847	0.847	0.847	0.847	0.847	0.860	1.044	1.060	1.060	1.078	0.946	0.946	0.946	0.958	0.923	1.078	1.078	1.078	1.060	1.060	0.868	0.860	0.853	
LGV6	1.165	1.154	1.154	1.154	1.154	1.154	1.176	1.408	1.428	1.428	1.448	1.290	1.290	1.290	1.290	1.305	1.262	1.448	1.448	1.448	1.428	1.187	1.176	1.165	
HGV7	1.484	1.469	1.469	1.469	1.469	1.469	1.500	1.846	1.876	1.876	1.907	1.669	1.669	1.669	1.669	1.691	1.627	1.907	1.907	1.907	1.876	1.876	1.516	1.500	1.484
HGV8	2.493	2.463	2.463	2.463	2.463	2.463	2.524	3.235	3.300	3.300	3.369	2.861	2.861	2.861	2.908	2.775	3.369	3.369	3.369	3.300	3.300	2.555	2.524	2.493	
FBDD	2.995	2.986	2.986	2.986	2.986	2.986	3.005	3.967	4.057	4.057	4.153	3.446	3.446	3.446	3.510	3.325	4.153	4.153	4.153	4.057	4.057	3.015	3.005	2.995	
MC	0.256	0.255	0.255	0.255	0.255	0.255	0.256	0.273	0.275	0.275	0.277	0.264	0.264	0.264	0.265	0.262	0.277	0.277	0.277	0.275	0.275	0.257	0.256	0.256	
TAXI	0.472	0.469	0.469	0.469	0.469	0.469	0.476	0.555	0.562	0.562	0.569	0.514	0.514	0.514	0.519	0.505	0.569	0.569	0.569	0.562	0.562	0.479	0.476	0.472	
PV4	0.312	0.309	0.309	0.309	0.309	0.309	0.316	0.399	0.406	0.406	0.414	0.355	0.355	0.355	0.361	0.345	0.414	0.414	0.414	0.406	0.406	0.319	0.316	0.312	
PV5	0.590	0.584	0.584	0.584	0.584	0.584	0.598	0.757	0.771	0.771	0.785	0.674	0.674	0.674	0.685	0.655	0.785	0.785	0.785	0.771	0.771	0.605	0.598	0.590	
NFB6	1.189	1.175	1.175	1.175	1.175	1.175	1.204	1.539	1.568	1.568	1.599	1.367	1.367	1.367	1.388	1.326	1.599	1.599	1.599	1.568	1.568	1.220	1.204	1.189	
NFB7	2.374	2.348	2.348	2.348	2.348	2.348	2.400	2.972	3.021	3.021	3.073	2.679	2.679	2.679	2.716	2.609	3.073	3.073	3.073	3.021	3.021	2.427	2.400	2.374	
NFB8	3.947	3.899	3.899	3.899	3.899	3.899	3.997	5.156	5.262	5.262	5.374	4.546	4.546	4.546	4.546	4.622	4.406	5.374	5.374	5.374	5.262	5.262	4.049	3.997	3.947
FBSD	3.043	3.009	3.009	3.009	3.009	3.009	3.079	3.896	3.970	3.970	4.048	3.470	3.470	3.470	3.523	3.370	4.048	4.048	4.048	3.970	3.970	3.116	3.079	3.043	
Total composite emission factor (g/Veh/km)		1.2405	0.9656	1.0299	1.0365	0.9641	0.8310	0.9043	0.9802	1.5981	1.6336	1.3936	1.1706	1.2299	1.2150	1.2625	1.2119	1.3782	1.3732	1.4305	1.0987	1.1156	1.1827	1.4099	1.7288
Total composite emission factor (g/Veh/mile)		2.00	1.56	1.66	1.67	1.56	1.34	1.46	1.58	2.58	2.63	2.25	1.89	1.98	1.96	2.04	1.95	2.22	2.21	2.31	1.77	1.80	1.91	2.27	2.79

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM7, Siu Lang Shui Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	0	0	0	0	0	0	1	4	8	10	7	5	5	7	5	7	7	5	1	0	0	0		
2	LGV3	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0		
3	LGV4	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
4	PLB	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
5	LGV6	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
6	HGV7	0	0	0	0	0	0	0	8	15	18	11	9	9	9	11	9	9	11	11	2	0	0		
7	HGV8	0	0	0	0	0	0	0	6	13	14	8	7	7	7	8	7	8	8	4	2	0	0		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	0	0	0	0	0	0	1	3	6	8	4	2	2	2	4	2	2	4	4	2	0	0		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total Flow (veh)		0	0	0	0	0	0	2	21	47	55	31	24	24	24	31	24	24	31	31	14	3	0	0	0

NO emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	
LGV3	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	1.159	
LGV4	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	
PLB	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	0.984	
LGV6	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	1.337	
HGV7	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	1.739	
HGV8	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	3.006	
FBDD	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	3.649	
MC	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	0.268	
TAXI	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	
PV4	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	0.372	
PV5	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	0.706	
NFB6	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	1.434	
NFB7	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	2.794	
NFB8	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	4.783	
FBSD	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	3.636	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2858	1.6050	1.5779	1.5187	1.5080	1.6300	1.6300	1.6300	1.5080	1.6300	1.6300	1.5080	1.5080	1.2806	2.0180	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.46	2.59	2.55	2.45	2.43	2.63	2.63	2.63	2.43	2.63	2.63	2.43	2.43	2.07	3.25	0.00	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM8_Unnamed Road to Cemetery
 Year: 2019

Vehicle Classes	Description	Hour																								
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
1	PC	0	0	0	0	0	0	0	0	2	3	2	1	1	1	2	0	1	2	1	2	1	0	1	0	0
2	LGV3	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	1	1	1	1	1	1	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	1	3	3	2	2	2	2	2	2	2	2	2	2	2	0	0	0	
7	HGV8	0	0	0	0	0	0	0	1	2	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	0	1	0	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		0	0	0	0	0	0	0	2	11	12	5	5	4	5	5	4	5	4	5	4	5	3	0	1	0

NO emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039
LGV3	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106
LGV4	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970
PLB	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934	0.934
LGV6	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276	1.276
HGV7	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648	1.648
HGV8	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817	2.817
FBDD	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384	3.384
MC	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263
TAXI	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509	0.509
PV4	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350
PV5	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664
NFB6	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346	1.346
NFB7	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644	2.644
NFB8	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475	4.475
FBSD	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419	3.419
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.2325	1.3273	1.2341	0.8961	1.3323	1.1103	0.9901	0.8961	1.6555	0.9901	1.1103	0.8961	0.5517	0.0000	0.0395	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.60	2.14	1.99	1.45	2.15	1.79	1.60	1.45	2.67	1.60	1.79	1.45	0.89	0.00	0.06	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM9, Siu Lang Shui Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	0	0	0	0	0	0	1	4	10	13	9	6	6	9	5	6	8	9	6	1	1	0	0	
2	LGV3	0	0	0	0	0	0	0	0	2	1	2	1	2	2	1	2	2	2	2	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	13	13	2	0	0	0	0	
7	HGV8	0	0	0	0	0	0	0	7	15	16	8	8	7	7	8	8	8	8	4	2	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		0	0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	0	0

NO emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	
LGV3	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	
LGV4	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	
PLB	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	
LGV6	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	
HGV7	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	
HGV8	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	
FBDD	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	
MC	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	
TAXI	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	
PV4	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	
PV5	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	
NFB6	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	
NFB7	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	
NFB8	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	
FBSD	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2889	1.6985	1.5697	1.5040	1.4520	1.6176	1.5889	1.5526	1.4520	1.6739	1.4410	1.4923	1.4520	1.1748	2.0535	0.0416	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.47	2.74	2.53	2.43	2.34	2.61	2.56	2.50	2.34	2.70	2.32	2.41	2.34	1.89	3.31	0.07	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM10_Lung Fat Street
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	0	0	0	0	0	0	1	4	10	13	9	6	6	9	5	6	8	9	6	1	1	0	0	
2	LGV3	0	0	0	0	0	0	0	0	2	1	2	1	2	2	1	2	2	2	2	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	11	13	13	2	0	0	0	
7	HGV8	0	0	0	0	0	0	0	7	15	16	8	8	7	7	8	8	8	8	4	2	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		0	0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	0	0

NO emission factor (g/Veh/km, EMFAC Veh categories)

Description	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
	PC	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042
LGV3	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	1.174	
LGV4	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	1.036	
PLB	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.998	
LGV6	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	1.353	
HGV7	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	
HGV8	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	3.059	
FBDD	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	
MC	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	0.269	
TAXI	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	
PV4	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	0.378	
PV5	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	0.718	
NFB6	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	1.459	
NFB7	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	2.836	
NFB8	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	4.869	
FBSD	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2889	1.6985	1.5697	1.5040	1.4520	1.6176	1.5889	1.5526	1.4520	1.6739	1.4410	1.4923	1.4520	1.1748	2.0535	0.0416	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.47	2.74	2.53	2.43	2.34	2.61	2.56	2.50	2.34	2.70	2.32	2.41	2.34	1.89	3.31	0.07	0.00	0.00	

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM11_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	6	4	3	1	2	8	23	93	128	137	193	196	166	159	178	180	176	169	184	166	129	27	11	7
2	LGV3	2	4	4	2	2	6	13	19	38	43	56	54	50	47	54	54	52	54	55	50	53	18	6	3
3	LGV4	1	1	1	3	2	6	9	10	24	26	48	46	43	41	47	46	47	47	46	43	43	11	5	2
4	PLB	5	3	2	2	2	2	3	6	6	6	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	6	9	10	25	26	43	41	39	37	42	41	42	42	41	39	40	14	4	2
6	HGV7	0	0	0	0	0	0	2	6	177	222	159	149	142	122	140	155	152	132	119	10	10	3	0	0
7	HGV8	0	0	0	0	0	0	4	15	103	121	47	38	50	45	62	58	40	32	67	12	11	7	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	6	6	5	4	4	4
10	TAXI	4	3	3	2	3	5	12	52	67	72	74	81	73	67	74	75	74	74	76	72	63	23	5	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
Total Flow (veh)		35	21	19	17	17	37	85	228	595	684	720	700	649	600	693	704	676	646	688	478	420	168	91	69

NO emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.037	0.036	0.036	0.036	0.036	0.036	0.037	0.043	0.044	0.044	0.044	0.044	0.040	0.040	0.039	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.037	0.037	0.037
LGV3	1.014	1.007	1.007	1.007	1.007	1.007	1.022	1.221	1.239	1.239	1.257	1.119	1.119	1.119	1.132	1.094	1.257	1.257	1.257	1.239	1.239	1.031	1.022	1.014	
LGV4	0.879	0.871	0.871	0.871	0.871	0.871	0.887	1.083	1.101	1.101	1.119	0.982	0.982	0.982	0.995	0.958	1.119	1.119	1.119	1.101	1.101	0.895	0.887	0.879	
PLB	0.853	0.847	0.847	0.847	0.847	0.847	0.860	1.044	1.060	1.060	1.078	0.946	0.946	0.946	0.958	0.923	1.078	1.078	1.078	1.060	1.060	0.868	0.860	0.853	
LGV6	1.165	1.154	1.154	1.154	1.154	1.154	1.176	1.408	1.428	1.428	1.448	1.290	1.290	1.290	1.290	1.305	1.262	1.448	1.448	1.448	1.428	1.187	1.176	1.165	
HGV7	1.484	1.469	1.469	1.469	1.469	1.469	1.500	1.846	1.876	1.876	1.907	1.669	1.669	1.669	1.669	1.691	1.627	1.907	1.907	1.907	1.876	1.516	1.500	1.484	
HGV8	2.493	2.463	2.463	2.463	2.463	2.463	2.524	3.235	3.300	3.300	3.369	2.861	2.861	2.861	2.908	2.775	3.369	3.369	3.369	3.300	3.300	2.555	2.524	2.493	
FBDD	2.995	2.986	2.986	2.986	2.986	2.986	3.005	3.967	4.057	4.057	4.153	3.446	3.446	3.446	3.510	3.325	4.153	4.153	4.153	4.057	4.057	3.015	3.005	2.995	
MC	0.256	0.255	0.255	0.255	0.255	0.255	0.256	0.273	0.275	0.275	0.277	0.264	0.264	0.264	0.265	0.262	0.277	0.277	0.277	0.275	0.257	0.256	0.256		
TAXI	0.472	0.469	0.469	0.469	0.469	0.469	0.476	0.555	0.562	0.562	0.569	0.514	0.514	0.514	0.519	0.505	0.569	0.569	0.569	0.562	0.562	0.479	0.476	0.472	
PV4	0.312	0.309	0.309	0.309	0.309	0.309	0.316	0.399	0.406	0.406	0.414	0.355	0.355	0.355	0.361	0.345	0.414	0.414	0.414	0.406	0.319	0.316	0.312		
PV5	0.590	0.584	0.584	0.584	0.584	0.584	0.598	0.757	0.771	0.771	0.785	0.674	0.674	0.674	0.685	0.655	0.785	0.785	0.785	0.771	0.605	0.598	0.590		
NFB6	1.189	1.175	1.175	1.175	1.175	1.175	1.204	1.539	1.568	1.568	1.599	1.367	1.367	1.367	1.388	1.326	1.599	1.599	1.599	1.568	1.220	1.204	1.189		
NFB7	2.374	2.348	2.348	2.348	2.348	2.348	2.400	2.972	3.021	3.021	3.073	2.679	2.679	2.679	2.716	2.609	3.073	3.073	3.073	3.021	3.021	2.427	2.400	2.374	
NFB8	3.947	3.899	3.899	3.899	3.899	3.899	3.997	5.156	5.262	5.262	5.374	4.546	4.546	4.546	4.622	4.406	5.374	5.374	5.374	5.262	5.262	4.049	3.997	3.947	
FBSD	3.043	3.009	3.009	3.009	3.009	3.009	3.079	3.896	3.970	3.970	4.048	3.470	3.470	3.470	3.523	3.370	4.048	4.048	4.048	3.970	3.970	3.116	3.079	3.043	
Total composite emission factor (g/Veh/km)		1.4000	1.1220	1.1936	1.2464	1.1570	0.8907	0.9583	0.8636	1.5420	1.5909	1.3586	1.1299	1.1978	1.1826	1.2381	1.1815	1.3558	1.3296	1.4006	1.0587	1.0888	1.2746	1.5820	1.7779
Total composite emission factor (g/Veh/mile)		2.26	1.81	1.93	2.01	1.87	1.44	1.55	1.39	2.49	2.57	2.19	1.82	1.93	2.00	1.91	2.19	2.14	2.26	1.71	1.76	2.06	2.55	2.87	

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM12_Unnamed Road to EcoPark
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	4	3	2	3	3	4	9	14	15	17	15	15	14	16	15	16	16	15	12	10	8	2		
2	LGV3	0	0	0	0	1	3	5	8	8	7	7	6	6	7	7	7	7	6	5	0	0	0		
3	LGV4	0	0	0	0	1	4	6	6	6	6	6	5	6	6	6	6	6	5	0	0	0	0		
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5	LGV6	0	0	0	0	1	1	4	6	6	6	6	5	6	6	6	6	6	5	0	0	0	0		
6	HGV7	0	0	0	0	0	0	2	7	8	5	4	4	5	4	4	4	5	5	2	1	0	0		
7	HGV8	0	0	0	0	0	0	6	38	42	25	24	23	21	24	24	19	24	24	15	10	1	0		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	1	1	2	1	1	1	5	9	9	10	10	9	9	10	10	10	10	9	7	6	5	0		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total Flow (veh)		5	4	4	4	4	7	10	35	88	94	76	72	67	64	74	72	65	74	74	57	45	17	13	2

NO emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
LGV3	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296	1.296
LGV4	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157	1.157
PLB	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114
LGV6	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493	1.493
HGV7	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974	1.974
HGV8	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518	3.518
FBDD	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360	4.360
MC	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280	0.280
TAXI	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.584
PV4	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431
PV5	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817	0.817
NFB6	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665
NFB7	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184	3.184
NFB8	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618	5.618
FBSD	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216	4.216
Total composite emission factor (g/Veh/km)		0.1532	0.1801	0.3146	0.1801	0.1801	0.6667	0.7305	1.2991	2.0417	2.0826	1.7028	1.7198	1.7280	1.6984	1.7006	1.7198	1.5936	1.7006	1.7006	1.4682	1.3671	0.4398	0.2526	0.0456
Total composite emission factor (g/Veh/mile)		0.25	0.29	0.51	0.29	0.29	1.08	1.18	2.10	3.29	3.36	2.75	2.77	2.79	2.74	2.74	2.77	2.57	2.74	2.74	2.37	0.71	0.41	0.07	

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM13 Lung Yiu Street
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	4	2	1	1	0	3	10	20	32	34	26	23	22	22	24	23	24	24	22	13	4	6	1	
2	LGV3	1	1	0	1	0	1	5	12	18	19	12	11	10	9	11	11	11	12	10	3	3	2	0	
3	LGV4	0	0	0	0	0	0	4	6	14	15	10	9	8	7	9	9	9	10	8	5	2	1	2	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	4	6	14	15	9	8	7	6	8	8	8	9	7	3	2	1	1	
6	HGV7	0	0	0	0	0	0	1	4	28	32	21	17	19	18	21	20	20	19	3	3	1	0	0	
7	HGV8	0	0	0	0	0	0	2	4	38	42	21	17	19	18	21	20	20	19	3	3	1	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	
10	TAXI	2	1	1	0	0	0	5	12	19	21	12	11	10	10	11	11	11	12	10	4	3	2	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	
Total Flow (veh)		7	4	2	2	0	4	31	70	169	184	118	103	102	97	112	109	109	110	112	64	35	16	13	4

NO emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.043	0.043	0.043	0.043	0.043	0.043	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.045	0.045	0.044	0.044	0.044	0.044	0.044	0.043	
LGV3	1.205	1.205	1.205	1.205	1.205	1.205	1.239	1.257	1.257	1.257	1.257	1.257	1.257	1.257	1.257	1.257	1.276	1.276	1.276	1.257	1.257	1.257	1.257	1.205	
LGV4	1.067	1.067	1.067	1.067	1.067	1.067	1.101	1.119	1.119	1.119	1.119	1.119	1.119	1.119	1.119	1.119	1.138	1.138	1.138	1.119	1.119	1.119	1.119	1.067	
PLB	1.028	1.028	1.028	1.028	1.028	1.028	1.060	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.078	1.096	1.096	1.096	1.078	1.078	1.078	1.078	1.028	
LGV6	1.389	1.389	1.389	1.389	1.389	1.389	1.428	1.448	1.448	1.448	1.448	1.448	1.448	1.448	1.448	1.448	1.470	1.470	1.470	1.448	1.448	1.448	1.448	1.389	
HGV7	1.817	1.817	1.817	1.817	1.817	1.817	1.876	1.907	1.907	1.907	1.907	1.907	1.907	1.907	1.907	1.907	1.940	1.940	1.940	1.907	1.907	1.907	1.907	1.817	
HGV8	3.174	3.174	3.174	3.174	3.174	3.174	3.300	3.369	3.369	3.369	3.369	3.369	3.369	3.369	3.369	3.369	3.441	3.441	3.441	3.369	3.369	3.369	3.369	3.174	
FBDD	3.881	3.881	3.881	3.881	3.881	3.881	4.057	4.153	4.153	4.153	4.153	4.153	4.153	4.153	4.153	4.153	4.253	4.253	4.253	4.153	4.153	4.153	4.153	3.881	
MC	0.272	0.272	0.272	0.272	0.272	0.272	0.275	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.277	0.278	0.278	0.278	0.277	0.277	0.277	0.277	0.272	
TAXI	0.548	0.548	0.548	0.548	0.548	0.548	0.562	0.569	0.569	0.569	0.569	0.569	0.569	0.569	0.569	0.569	0.576	0.576	0.576	0.569	0.569	0.569	0.569	0.548	
PV4	0.391	0.391	0.391	0.391	0.391	0.391	0.406	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.422	0.422	0.422	0.414	0.414	0.414	0.414	0.391	
PV5	0.743	0.743	0.743	0.743	0.743	0.743	0.771	0.785	0.785	0.785	0.785	0.785	0.785	0.785	0.785	0.785	0.801	0.801	0.801	0.785	0.785	0.785	0.785	0.743	
NFB6	1.511	1.511	1.511	1.511	1.511	1.511	1.568	1.599	1.599	1.599	1.599	1.599	1.599	1.599	1.599	1.599	1.631	1.631	1.631	1.599	1.599	1.599	1.599	1.511	
NFB7	2.924	2.924	2.924	2.924	2.924	2.924	3.021	3.073	3.073	3.073	3.073	3.073	3.073	3.073	3.073	3.073	3.127	3.127	3.127	3.073	3.073	3.073	3.073	2.924	
NFB8	5.055	5.055	5.055	5.055	5.055	5.055	5.262	5.374	5.374	5.374	5.374	5.374	5.374	5.374	5.374	5.374	5.492	5.492	5.492	5.374	5.374	5.374	5.374	5.055	
FBSD	3.826	3.826	3.826	3.826	3.826	3.826	3.970	4.048	4.048	4.048	4.048	4.048	4.048	4.048	4.048	4.048	4.129	4.129	4.129	4.048	4.048	4.048	4.048	3.826	
Total composite emission factor (g/Veh/km)		0.3531	0.4596	0.2955	0.6237	0.0000	0.3331	0.9042	1.1342	1.6112	1.6220	1.5123	1.4837	1.5582	1.5447	1.5533	1.5472	1.5762	1.5623	1.5262	0.8504	0.9333	1.0040	0.5201	0.8914
Total composite emission factor (g/Veh/mile)		0.57	0.74	0.48	1.01	0.00	0.54	1.46	1.83	2.60	2.62	2.44	2.39	2.51	2.49	2.51	2.50	2.54	2.52	2.46	1.37	1.51	1.62	0.84	1.44

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM14_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	2	2	2	0	2	5	13	73	96	103	167	173	144	137	154	157	153	145	160	144	116	23	5	6
2	LGV3	1	3	4	1	2	5	8	7	20	24	44	43	40	38	43	41	43	43	40	50	15	4	3	
3	LGV4	1	1	1	3	2	6	5	4	10	11	38	37	35	34	38	37	38	36	35	38	9	4	0	
4	PLB	5	3	2	2	2	2	3	6	6	6	12	11	10	10	11	11	11	12	10	8	8	7	6	
5	LGV6	1	1	1	3	2	6	5	4	11	11	34	33	32	31	34	33	34	32	32	37	12	3	1	
6	HGV7	0	0	0	0	0	0	1	2	149	190	138	132	123	104	119	135	132	112	100	7	7	2	0	
7	HGV8	0	0	0	0	0	0	2	11	65	79	26	21	31	27	41	38	20	12	48	9	8	6	2	
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	
9	MC	0	0	0	0	0	0	0	1	1	1	5	5	4	5	5	5	5	5	5	4	4	4	3	
10	TAXI	2	2	2	2	3	5	7	40	48	51	62	70	63	57	63	64	63	63	64	62	59	20	3	
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	5	5	5	5	5	4	4	4	3	2	
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	5	5	5	5	5	4	4	4	3	2	
13	NFB6	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	
14	NFB7	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	
15	NFB8	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	
Total Flow (veh)		28	17	17	15	17	33	54	158	426	500	602	597	547	503	581	595	567	536	576	414	385	152	78	65

NO emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.037	0.036	0.036	0.036	0.036	0.036	0.037	0.043	0.044	0.044	0.044	0.044	0.040	0.040	0.039	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.037	0.037	0.037
LGV3	1.014	1.007	1.007	1.007	1.007	1.007	1.022	1.221	1.239	1.239	1.257	1.119	1.119	1.119	1.132	1.094	1.257	1.257	1.257	1.239	1.239	1.031	1.022	1.014	
LGV4	0.879	0.871	0.871	0.871	0.871	0.871	0.887	1.083	1.101	1.101	1.119	0.982	0.982	0.982	0.995	0.958	1.119	1.119	1.119	1.101	1.101	0.895	0.887	0.879	
PLB	0.853	0.847	0.847	0.847	0.847	0.847	0.860	1.044	1.060	1.060	1.078	0.946	0.946	0.946	0.958	0.923	1.078	1.078	1.078	1.060	1.060	0.868	0.860	0.853	
LGV6	1.165	1.154	1.154	1.154	1.154	1.154	1.176	1.408	1.428	1.428	1.448	1.290	1.290	1.290	1.305	1.262	1.448	1.448	1.448	1.428	1.428	1.187	1.176	1.165	
HGV7	1.484	1.469	1.469	1.469	1.469	1.469	1.500	1.846	1.876	1.876	1.907	1.669	1.669	1.669	1.669	1.691	1.627	1.907	1.907	1.907	1.876	1.876	1.516	1.500	1.484
HGV8	2.493	2.463	2.463	2.463	2.463	2.463	2.524	3.235	3.300	3.300	3.369	2.861	2.861	2.861	2.908	2.775	3.369	3.369	3.369	3.300	3.300	2.555	2.524	2.493	
FBDD	2.995	2.986	2.986	2.986	2.986	2.986	3.005	3.967	4.057	4.057	4.153	3.446	3.446	3.446	3.510	3.325	4.153	4.153	4.153	4.057	4.057	3.015	3.005	2.995	
MC	0.256	0.255	0.255	0.255	0.255	0.255	0.256	0.273	0.275	0.275	0.277	0.264	0.264	0.264	0.265	0.262	0.277	0.277	0.277	0.275	0.275	0.257	0.256	0.256	
TAXI	0.472	0.469	0.469	0.469	0.469	0.469	0.476	0.555	0.562	0.562	0.569	0.514	0.514	0.514	0.519	0.505	0.569	0.569	0.569	0.562	0.562	0.479	0.476	0.472	
PV4	0.312	0.309	0.309	0.309	0.309	0.309	0.316	0.399	0.406	0.406	0.414	0.355	0.355	0.355	0.361	0.345	0.414	0.414	0.414	0.406	0.406	0.319	0.316	0.312	
PV5	0.590	0.584	0.584	0.584	0.584	0.584	0.598	0.757	0.771	0.771	0.785	0.674	0.674	0.674	0.685	0.655	0.785	0.785	0.785	0.771	0.771	0.605	0.598	0.590	
NFB6	1.189	1.175	1.175	1.175	1.175	1.175	1.204	1.539	1.568	1.568	1.599	1.367	1.367	1.367	1.388	1.326	1.599	1.599	1.599	1.568	1.568	1.220	1.204	1.189	
NFB7	2.374	2.348	2.348	2.348	2.348	2.348	2.400	2.972	3.021	3.021	3.073	2.679	2.679	2.679	2.716	2.609	3.073	3.073	3.073	3.021	3.021	2.427	2.400	2.374	
NFB8	3.947	3.899	3.899	3.899	3.899	3.899	3.997	5.156	5.262	5.262	5.374	4.546	4.546	4.546	4.622	4.406	5.374	5.374	5.374	5.262	5.262	4.049	3.997	3.947	
FBSD	3.043	3.009	3.009	3.009	3.009	3.009	3.079	3.896	3.970	3.970	4.048	3.470	3.470	3.470	3.523	3.370	4.048	4.048	4.048	3.970	3.970	3.116	3.079	3.043	
Total composite emission factor (g/Veh/km)		1.6749	1.2949	1.3043	1.3431	1.1570	0.9648	1.0888	0.7602	1.5261	1.5902	1.3285	1.1029	1.1695	1.1528	1.2137	1.1590	1.3190	1.2877	1.3816	1.0930	1.1043	1.3238	1.7747	1.8418
Total composite emission factor (g/Veh/mile)		2.70	2.09	2.10	2.17	1.87	1.56	1.76	1.23	2.46	2.56	2.14	1.78	1.89	1.86	1.96	1.87	2.13	2.08	2.23	1.76	1.78	2.14	2.86	2.97

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM15_Lung Yiu Street
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	3	1	1	1	0	2	7	14	22	23	11	9	9	9	9	9	9	9	9	9	5	1	4	1
2	LGV3	1	1	0	1	0	1	3	9	13	13	4	4	3	3	4	4	3	4	4	0	1	2	0	
3	LGV4	0	0	0	0	0	0	2	2	9	10	3	4	3	2	3	4	4	3	4	3	1	1	1	2
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	2	2	9	10	2	3	2	1	2	3	3	2	3	2	0	1	1	1
6	HGV7	0	0	0	0	0	0	1	2	18	21	16	12	15	14	17	15	15	16	14	1	2	0	0	0
7	HGV8	0	0	0	0	0	0	1	2	24	27	16	12	15	14	17	15	15	16	14	1	2	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0
10	TAXI	1	0	1	0	0	0	3	9	13	15	2	2	1	2	1	2	2	1	2	1	1	1	1	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
14	NFB7	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
15	NFB8	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
16	FBSD	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
Total Flow (veh)		5	2	2	2	0	3	19	46	114	125	58	50	53	49	56	56	56	54	54	22	12	5	10	4

NO emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039
LGV3	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083	1.083
LGV4	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947
PLB	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912
LGV6	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248
HGV7	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607	1.607
HGV8	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735	2.735
FBDD	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268	3.268
MC	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261	0.261
TAXI	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
PV4	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340	0.340
PV5	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646	0.646
NFB6	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307	1.307
NFB7	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576	2.576
NFB8	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340	4.340
FBSD	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324	3.324
Total composite emission factor (g/Veh/km)		0.3398	0.5607	0.2694	0.5607	0.0000	0.3867	0.7237	0.9632	1.3349	1.3475	1.5352	1.4759	1.5872	1.5715	1.6379	1.5503	1.5503	1.6182	1.5273	0.6872	0.8820	0.7633	0.5276	0.7950
Total composite emission factor (g/Veh/mile)		0.55	0.90	0.43	0.90	0.00	0.62	1.17	1.55	2.15	2.17	2.48	2.38	2.53	2.64	2.50	2.50	2.61	2.46	1.11	1.42	1.23	0.85	1.28	

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM16_Lung Hong Street
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	1	1	0	0	0	1	3	6	10	11	15	14	13	13	15	14	15	15	13	8	3	2	0	
2	LGV3	0	0	0	0	0	0	2	3	5	6	8	7	6	6	8	7	7	8	8	6	3	2	0	
3	LGV4	0	0	0	0	0	0	2	4	5	5	7	5	5	6	5	5	6	6	5	4	1	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	2	4	5	5	7	5	5	6	5	5	6	6	5	3	1	0	0	
6	HGV7	0	0	0	0	0	0	2	10	11	5	5	4	4	4	5	5	4	5	2	1	1	0	0	
7	HGV8	0	0	0	0	0	0	1	2	14	15	5	4	4	4	5	5	4	5	2	1	1	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	1	1	0	0	0	0	2	3	6	6	10	9	9	8	10	9	9	10	10	9	3	2	1	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Flow (veh)		2	2	0	0	0	1	12	24	55	59	60	53	49	48	56	53	56	58	42	23	11	3	0	

NO emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	
LGV3	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	
LGV4	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	0.958	
PLB	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	0.923	
LGV6	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	1.262	
HGV7	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	1.627	
HGV8	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	2.775	
FBDD	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	3.325	
MC	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	0.262	
TAXI	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	
PV4	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	
PV5	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	0.655	
NFB6	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	1.326	
NFB7	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	2.609	
NFB8	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	4.406	
FBSD	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	3.370	
Total composite emission factor (g/Veh/km)		0.2718	0.2718	0.0000	0.0000	0.0000	0.0391	0.8775	0.9464	1.3656	1.3669	1.0046	1.0226	0.9931	1.0033	0.9581	1.0226	1.0226	0.9581	1.0010	0.7504	0.7447	0.9033	0.1943	0.0000
Total composite emission factor (g/Veh/mile)		0.44	0.44	0.00	0.00	0.00	0.06	1.42	1.53	2.20	2.20	1.62	1.65	1.60	1.62	1.55	1.65	1.65	1.55	1.61	1.21	1.20	1.46	0.31	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

0529880 TMFB

Pollutant Name: PM10

Speed km/hr	PC	LGV3	LGV4	PLB	LGV6	HGV7	HGV8	HGV8b	FBDD	MC	TAXI	PV4	PV5	NFB6	NFB7	NFB8	FBSD
	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
10	0.011	0.045	0.050	0.068	0.096	0.161	0.329	0.128	0.328	0.024	0.000	0.054	0.094	0.164	0.153	0.521	0.320
17	0.008	0.037	0.041	0.049	0.075	0.097	0.225	0.092	0.249	0.018	0.000	0.043	0.071	0.123	0.103	0.371	0.247
18	0.008	0.036	0.039	0.047	0.073	0.092	0.216	0.088	0.241	0.017	0.000	0.041	0.069	0.118	0.099	0.358	0.240
27	0.005	0.028	0.031	0.035	0.060	0.065	0.163	0.068	0.189	0.012	0.000	0.031	0.049	0.085	0.075	0.277	0.192
28	0.005	0.027	0.030	0.034	0.059	0.063	0.159	0.067	0.184	0.012	0.000	0.030	0.047	0.082	0.073	0.270	0.188
29	0.005	0.026	0.029	0.033	0.058	0.062	0.155	0.065	0.180	0.011	0.000	0.029	0.046	0.079	0.071	0.264	0.185
30	0.005	0.026	0.029	0.032	0.058	0.060	0.152	0.064	0.176	0.011	0.000	0.029	0.044	0.077	0.070	0.259	0.181
31	0.004	0.025	0.028	0.032	0.057	0.059	0.148	0.063	0.173	0.010	0.000	0.028	0.043	0.075	0.068	0.254	0.178
32	0.004	0.025	0.027	0.031	0.056	0.057	0.145	0.062	0.169	0.010	0.000	0.027	0.042	0.073	0.067	0.248	0.175
33	0.004	0.024	0.027	0.030	0.055	0.056	0.142	0.060	0.166	0.010	0.000	0.026	0.040	0.070	0.066	0.244	0.172
34	0.004	0.023	0.026	0.030	0.055	0.055	0.139	0.059	0.163	0.010	0.000	0.026	0.039	0.069	0.065	0.239	0.169
35	0.004	0.023	0.026	0.029	0.054	0.054	0.137	0.058	0.160	0.009	0.000	0.025	0.038	0.067	0.063	0.235	0.166
36	0.004	0.022	0.025	0.028	0.053	0.053	0.134	0.057	0.157	0.009	0.000	0.024	0.037	0.065	0.062	0.231	0.164
37	0.004	0.022	0.025	0.028	0.053	0.052	0.132	0.056	0.154	0.009	0.000	0.024	0.036	0.064	0.061	0.227	0.161
38	0.003	0.021	0.024	0.027	0.052	0.051	0.129	0.055	0.152	0.009	0.000	0.023	0.035	0.062	0.060	0.223	0.159
39	0.003	0.021	0.023	0.027	0.052	0.050	0.127	0.054	0.149	0.008	0.000	0.023	0.035	0.061	0.059	0.219	0.157
40	0.003	0.021	0.023	0.027	0.051	0.049	0.125	0.053	0.147	0.008	0.000	0.022	0.034	0.060	0.058	0.216	0.154
41	0.003	0.020	0.023	0.026	0.051	0.048	0.123	0.053	0.145	0.008	0.000	0.022	0.033	0.059	0.058	0.212	0.152
42	0.003	0.020	0.022	0.026	0.050	0.047	0.121	0.052	0.143	0.008	0.000	0.021	0.033	0.058	0.057	0.209	0.150
43	0.003	0.019	0.022	0.026	0.050	0.047	0.119	0.051	0.141	0.008	0.000	0.021	0.032	0.057	0.056	0.206	0.149
44	0.003	0.019	0.021	0.025	0.050	0.046	0.118	0.050	0.139	0.007	0.000	0.020	0.032	0.056	0.055	0.203	0.147
45	0.003	0.019	0.021	0.025	0.049	0.045	0.116	0.050	0.137	0.007	0.000	0.020	0.031	0.055	0.054	0.200	0.145
50	0.002	0.017	0.019	0.024	0.048	0.042	0.108	0.046	0.130	0.007	0.000	0.018	0.030	0.053	0.051	0.187	0.138
51	0.002	0.017	0.019	0.024	0.048	0.042	0.108	0.046	0.130	0.006	0.000	0.018	0.030	0.053	0.051	0.187	0.138
52	0.002	0.016	0.018	0.024	0.048	0.042	0.108	0.046	0.130	0.006	0.000	0.017	0.030	0.052	0.050	0.187	0.138
53	0.002	0.016	0.018	0.024	0.048	0.041	0.107	0.046	0.129	0.006	0.000	0.017	0.029	0.052	0.050	0.187	0.138
54	0.002	0.016	0.018	0.024	0.047	0.041	0.107	0.046	0.129	0.006	0.000	0.017	0.029	0.052	0.049	0.187	0.138

EMFAC-HK Model (v 4.1) Key Assumptions:

Mode: EMFAC

Calendar Year: 2019

Temperature and relative humidity: 24 degree C, 77% (2018 average at Tuen Mun Weather Station)

Vehicle Population (external traffic): Default (i.e. HGV8 emission factors for Roads R1 to R7, R9, R25 to R28)

Vehicle Population (internal traffic): All HGV8 (year 2019) are of Euro V standard (i.e. HGV8b emission factors for Roads R8, R11, R14, R15, R17 to R22)

Vehicle Accrual: Default

Trips: Default (not used. No starting emissions as parking restrictions apply for all identified major roads within the Study Area)

VKT: Default (not used in EMFAC mode)

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM1_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																								
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
1	PC	16	11	8	5	6	12	32	113	163	176	247	240	209	200	228	223	220	218	236	209	160	51	32	19	
2	LGV3	7	5	5	3	3	8	17	29	55	59	76	71	66	63	72	71	70	72	75	66	66	25	13	8	
3	LGV4	4	2	2	3	2	7	11	17	36	38	62	58	54	52	59	58	58	59	60	54	54	17	11	6	
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6	
5	LGV6	4	2	2	3	2	7	11	17	36	38	57	53	50	48	54	53	54	55	50	51	20	10	6	6	
6	HGV7	0	0	0	0	0	0	4	20	286	364	274	254	231	225	261	262	268	251	214	16	12	4	0	0	
7	HGV8	0	0	0	0	0	0	10	48	666	831	645	590	565	524	632	621	628	588	496	39	28	10	2	0	
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	6	
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	6	5	6	6	6	6	6	6	5	4	4	4	4
10	TAXI	9	5	6	4	5	7	15	64	88	96	100	103	92	87	99	97	96	99	102	92	76	34	15	5	
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2	
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2	
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9	
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9	
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9	
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7	
Total Flow (veh)		61	33	30	24	24	47	113	331	1367	1643	1561	1464	1353	1281	1501	1480	1486	1437	1338	612	518	226	141	98	

PM10 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.005	0.005	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003	0.003	0.003	0.002	0.002	0.002
LGV3	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.023	0.027	0.028	0.023	0.020	0.020	0.019	0.020	0.020	0.023	0.026	0.025	0.021	0.021	0.017	0.017	0.016	
LGV4	0.018	0.018	0.018	0.018	0.018	0.018	0.019	0.026	0.030	0.031	0.026	0.023	0.022	0.021	0.023	0.023	0.026	0.029	0.028	0.023	0.023	0.019	0.019	0.018	
PLB	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.029	0.034	0.035	0.029	0.026	0.026	0.025	0.026	0.026	0.030	0.033	0.032	0.027	0.027	0.024	0.024	0.024	
LGV6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.054	0.059	0.060	0.054	0.051	0.050	0.050	0.051	0.051	0.055	0.058	0.057	0.051	0.051	0.048	0.048	0.048	
HGV7	0.042	0.041	0.041	0.041	0.041	0.041	0.042	0.054	0.063	0.065	0.054	0.048	0.047	0.046	0.048	0.048	0.055	0.062	0.059	0.049	0.049	0.042	0.042	0.042	
HGV8	0.108	0.107	0.107	0.107	0.107	0.107	0.108	0.137	0.159	0.163	0.137	0.123	0.121	0.118	0.123	0.123	0.139	0.155	0.148	0.125	0.125	0.108	0.108	0.108	
FBDD	0.130	0.129	0.129	0.129	0.129	0.129	0.130	0.160	0.184	0.189	0.160	0.145	0.143	0.139	0.145	0.145	0.163	0.180	0.173	0.147	0.147	0.130	0.130	0.130	
MC	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.009	0.012	0.012	0.009	0.008	0.008	0.007	0.008	0.008	0.010	0.011	0.010	0.008	0.008	0.007	0.006	0.006	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.025	0.030	0.031	0.025	0.022	0.021	0.020	0.022	0.022	0.026	0.029	0.028	0.022	0.022	0.018	0.018	0.017	
PV5	0.030	0.029	0.029	0.029	0.029	0.029	0.030	0.038	0.047	0.049	0.038	0.033	0.033	0.032	0.033	0.033	0.039	0.046	0.043	0.034	0.034	0.030	0.030	0.030	
NFB6	0.052	0.052	0.052	0.052	0.052	0.052	0.053	0.067	0.082	0.085	0.067	0.059	0.058	0.056	0.059	0.059	0.069	0.079	0.075	0.060	0.060	0.053	0.053	0.052	
NFB7	0.050	0.050	0.050	0.050	0.050	0.050	0.051	0.063	0.073	0.075	0.063	0.058	0.057	0.055	0.058	0.058	0.065	0.071	0.068	0.058	0.058	0.051	0.051	0.050	
NFB8	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.235	0.270	0.277	0.235	0.212	0.209	0.203	0.212	0.212	0.239	0.264	0.254	0.216	0.216	0.187	0.187	0.187	
FBSD	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.166	0.188	0.192	0.166	0.152	0.150	0.147	0.152	0.152	0.169	0.185	0.178	0.154	0.154	0.138	0.138	0.138	
Total composite emission factor (g/Veh/km)		0.0348	0.0262	0.0278	0.0304	0.0278	0.0232	0.0312	0.0369	0.0397	0.0336	0.0273	0.0263	0.0268	0.0268	0.0260	0.0274	0.0274	0.0282	0.0277	0.0272	0.0272	0.0272	0.0272	0.0272
Total composite emission factor (g/Veh/mile)		0.06	0.04	0.04	0.05	0.04	0.04	0.05	0.06	0.16	0.17	0.12	0.11	0.11	0.11	0.11	0.13	0.14	0.13	0.05	0.05	0.06	0.07	0.09	

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM2_Unnamed Road to River Trade Terminal
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	4	3	2	1	1	1	3	5	8	17	13	13	13	15	13	13	15	17	13	10	7	7	5	
2	LGV3	3	1	1	1	1	1	1	3	5	5	5	4	4	5	5	5	5	5	4	3	3	3	3	
3	LGV4	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	3	3	3	4	3	3	2	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	3	4	3	3	3	2		
6	HGV7	0	0	0	0	0	0	2	2	64	69	57	52	38	56	63	54	59	63	65	1	1	0	0	
7	HGV8	0	0	0	0	0	0	6	16	396	406	333	306	277	265	314	311	324	314	331	2	2	1	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	2	1	1	1	1	1	1	2	4	5	5	3	3	3	5	3	3	5	5	3	1	1	1	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		13	7	6	3	3	3	15	32	483	499	425	385	341	347	408	392	410	408	431	29	24	19	17	13

PM10 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	
LGV3	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.036	0.036	0.036	0.036	0.036	
LGV4	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.039	0.039	0.039	0.039	0.039	
PLB	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.047	0.047	0.047	0.047	0.047	
LGV6	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.073	0.073	0.073	0.073	0.073	
HGV7	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.092	0.092	0.092	0.092	0.092	
HGV8	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.225	0.216	0.216	0.216	0.216	0.216	
FBDD	0.241	0.241	0.241	0.241	0.241	0.241	0.241	0.241	0.249	0.249	0.249	0.249	0.249	0.249	0.249	0.249	0.249	0.249	0.249	0.241	0.241	0.241	0.241	0.241	
MC	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.017	0.017	0.017	0.017	0.017	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.041	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.041	0.041	0.041	0.041	0.041	0.041	
PV5	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.069	0.069	0.069	0.069	0.069	
NFB6	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.123	0.118	0.118	0.118	0.118	0.118	
NFB7	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.103	0.099	0.099	0.099	0.099	0.099	
NFB8	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.358	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.371	0.358	0.358	0.358	0.358	0.358	
FBSD	0.240	0.240	0.240	0.240	0.240	0.240	0.240	0.240	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.247	0.240	0.240	0.240	0.240	0.240	
Total composite emission factor (g/Veh/km)		0.0278	0.0243	0.0271	0.0144	0.0144	0.0144	0.0100	0.1253	0.1985	0.1976	0.1910	0.1935	0.1952	0.1891	0.1896	0.1934	0.1932	0.1896	0.1891	0.0379	0.0449	0.0423	0.0292	0.0283
Total composite emission factor (g/Veh/mile)		0.04	0.04	0.04	0.02	0.02	0.02	0.18	0.20	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.06	0.07	0.05	0.05	0.05

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM3_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	12	8	6	4	5	11	29	108	155	168	230	227	196	187	213	210	207	203	219	196	150	44	25	14
2	LGV3	4	4	4	2	2	7	16	26	50	54	71	66	62	59	67	66	65	67	70	62	62	22	10	5
3	LGV4	2	1	1	3	2	7	10	15	33	35	58	55	51	49	56	55	55	56	56	51	51	14	8	4
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	2	1	1	3	2	7	10	15	33	35	53	50	47	45	51	50	50	51	51	47	48	17	7	4
6	HGV7	0	0	0	0	0	0	2	18	222	295	217	202	193	169	198	208	209	188	149	15	11	3	0	0
7	HGV8	0	0	0	0	0	0	4	32	270	425	312	284	288	259	318	310	304	274	165	37	26	9	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	6	6	6	6	5	6	6	6	6	6	6	5	4	4	4
10	TAXI	7	4	5	3	4	6	14	62	84	91	95	100	89	84	94	94	93	94	97	89	75	33	14	4
11	PV4	1	0	0	0	0	0	0	1	1	5	5	4	4	5	5	5	5	5	4	4	4	3	2	2
12	PV5	1	0	0	0	0	0	0	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
Total Flow (veh)		48	26	24	21	21	44	98	299	884	1144	1136	1079	1012	934	1093	1088	1076	1029	907	583	494	207	124	85

PM10 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																									
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.004	0.003	0.003	0.002	0.002	0.002
LGV3	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.022	0.023	0.023	0.023	0.019	0.019	0.019	0.020	0.020	0.023	0.026	0.025	0.020	0.019	0.017	0.017	0.016	0.016	
LGV4	0.018	0.018	0.018	0.018	0.018	0.018	0.019	0.025	0.026	0.026	0.026	0.021	0.021	0.022	0.023	0.023	0.026	0.029	0.028	0.023	0.021	0.019	0.019	0.018	0.018	
PLB	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.028	0.029	0.029	0.029	0.025	0.025	0.026	0.026	0.026	0.030	0.033	0.032	0.026	0.025	0.024	0.024	0.024	0.024	
LGV6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.053	0.054	0.054	0.054	0.050	0.050	0.050	0.050	0.051	0.051	0.055	0.058	0.057	0.051	0.050	0.048	0.048	0.048	
HGV7	0.042	0.041	0.041	0.041	0.041	0.041	0.042	0.052	0.054	0.054	0.054	0.046	0.046	0.047	0.048	0.048	0.055	0.062	0.059	0.048	0.046	0.042	0.042	0.042	0.042	
HGV8	0.108	0.107	0.107	0.107	0.107	0.107	0.108	0.132	0.137	0.137	0.137	0.118	0.118	0.119	0.123	0.123	0.139	0.155	0.148	0.123	0.118	0.108	0.108	0.108	0.108	
FBDD	0.130	0.129	0.129	0.129	0.129	0.129	0.130	0.154	0.160	0.160	0.160	0.139	0.139	0.141	0.145	0.145	0.163	0.180	0.173	0.145	0.139	0.130	0.130	0.130	0.130	
MC	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.009	0.009	0.009	0.009	0.007	0.007	0.008	0.008	0.008	0.010	0.011	0.010	0.008	0.007	0.007	0.006	0.006	0.006	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.024	0.025	0.025	0.025	0.020	0.020	0.021	0.022	0.022	0.026	0.029	0.028	0.022	0.020	0.018	0.018	0.017	0.017	
PV5	0.030	0.029	0.029	0.029	0.029	0.029	0.030	0.036	0.038	0.038	0.038	0.032	0.032	0.032	0.033	0.033	0.039	0.046	0.043	0.033	0.032	0.030	0.030	0.030	0.030	
NFB6	0.052	0.052	0.052	0.052	0.052	0.052	0.053	0.064	0.067	0.067	0.067	0.056	0.056	0.057	0.059	0.059	0.069	0.079	0.075	0.059	0.056	0.053	0.053	0.052	0.052	
NFB7	0.050	0.050	0.050	0.050	0.050	0.050	0.051	0.061	0.063	0.063	0.063	0.055	0.055	0.056	0.058	0.058	0.065	0.071	0.068	0.058	0.055	0.051	0.051	0.050	0.050	
NFB8	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.227	0.235	0.235	0.235	0.203	0.203	0.206	0.212	0.212	0.239	0.264	0.254	0.212	0.203	0.187	0.187	0.187	0.187	
FBSD	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.161	0.166	0.166	0.166	0.147	0.147	0.149	0.152	0.152	0.169	0.185	0.178	0.152	0.147	0.138	0.138	0.138	0.138	
Total composite emission factor (g/Veh/km)		0.0403	0.0298	0.0311	0.0339	0.0309	0.0243	0.0276	0.0312	0.0643	0.0723	0.0630	0.0526	0.0549	0.0549	0.0582	0.0578	0.0654	0.0708	0.0570	0.0322	0.0303	0.0386	0.0464	0.0587	
Total composite emission factor (g/Veh/mile)		0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.05	0.10	0.12	0.10	0.08	0.09	0.09	0.09	0.09	0.11	0.09	0.05	0.05	0.06	0.07	0.09	0.09	

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM5_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	10	7	5	4	5	11	28	106	152	165	219	217	187	179	203	200	197	193	209	187	142	38	19	9
2	LGV3	2	4	4	2	2	7	16	24	48	52	65	62	58	55	63	62	61	63	64	58	58	18	6	3
3	LGV4	1	1	1	3	2	7	10	14	32	34	54	52	48	46	53	52	52	53	52	48	48	11	5	2
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	7	10	14	32	34	49	47	44	42	48	47	47	48	47	44	45	14	4	2
6	HGV7	0	0	0	0	0	0	2	17	202	251	177	164	157	137	158	170	167	150	137	14	11	3	0	0
7	HGV8	0	0	0	0	0	0	4	28	156	179	80	70	80	73	94	90	64	64	99	31	23	8	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	6	6	5	4	4	4
10	TAXI	5	4	5	3	4	6	14	60	82	89	88	94	84	79	88	88	87	88	90	84	70	29	10	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	5	5	5	5	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
Total Flow (veh)		40	25	23	21	21	44	97	286	741	845	832	801	744	693	803	804	768	798	552	468	186	104	71	

PM10 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.002	0.002	0.002
LGV3	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.023	0.023	0.023	0.024	0.020	0.020	0.020	0.020	0.019	0.024	0.024	0.024	0.023	0.023	0.017	0.017	0.016	0.016
LGV4	0.018	0.018	0.018	0.018	0.018	0.018	0.019	0.026	0.026	0.026	0.027	0.022	0.022	0.022	0.023	0.021	0.027	0.027	0.026	0.026	0.019	0.019	0.019	0.018	0.018
PLB	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.029	0.030	0.030	0.030	0.026	0.026	0.026	0.025	0.030	0.030	0.030	0.030	0.030	0.030	0.024	0.024	0.024	0.024
LGV6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.054	0.055	0.055	0.055	0.050	0.050	0.050	0.051	0.050	0.055	0.055	0.055	0.055	0.055	0.048	0.048	0.048	0.048
HGV7	0.042	0.041	0.041	0.041	0.041	0.041	0.042	0.054	0.055	0.055	0.056	0.047	0.047	0.047	0.048	0.046	0.056	0.056	0.056	0.055	0.055	0.042	0.042	0.042	0.042
HGV8	0.108	0.107	0.107	0.107	0.107	0.107	0.108	0.137	0.139	0.139	0.142	0.121	0.121	0.121	0.123	0.118	0.142	0.142	0.142	0.139	0.139	0.108	0.108	0.108	0.108
FBDD	0.130	0.129	0.129	0.129	0.129	0.129	0.130	0.160	0.163	0.163	0.166	0.143	0.143	0.143	0.145	0.139	0.166	0.166	0.166	0.163	0.163	0.130	0.130	0.130	0.130
MC	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.009	0.010	0.010	0.010	0.008	0.008	0.008	0.008	0.007	0.010	0.010	0.010	0.010	0.010	0.007	0.006	0.006	0.006
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.025	0.026	0.026	0.026	0.021	0.021	0.021	0.022	0.020	0.026	0.026	0.026	0.026	0.026	0.018	0.018	0.017	0.017
PV5	0.030	0.029	0.029	0.029	0.029	0.029	0.030	0.038	0.039	0.039	0.040	0.033	0.033	0.033	0.032	0.040	0.040	0.040	0.039	0.039	0.030	0.030	0.030	0.030	0.030
NFB6	0.052	0.052	0.052	0.052	0.052	0.052	0.053	0.067	0.069	0.069	0.070	0.058	0.058	0.058	0.059	0.056	0.070	0.070	0.070	0.069	0.069	0.053	0.053	0.052	0.052
NFB7	0.050	0.050	0.050	0.050	0.050	0.050	0.051	0.063	0.065	0.065	0.066	0.057	0.057	0.057	0.058	0.055	0.066	0.066	0.066	0.065	0.065	0.051	0.051	0.050	0.050
NFB8	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.235	0.239	0.239	0.244	0.209	0.209	0.209	0.212	0.203	0.244	0.244	0.244	0.239	0.239	0.187	0.187	0.187	0.187
FBSD	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.166	0.169	0.169	0.172	0.150	0.150	0.150	0.152	0.147	0.172	0.172	0.172	0.169	0.169	0.138	0.138	0.138	0.138
Total composite emission factor (g/Veh/km)		0.0457	0.0309	0.0324	0.0339	0.0309	0.0243	0.0279	0.0313	0.0351	0.0363	0.0466	0.0380	0.0404	0.0400	0.0421	0.0400	0.0455	0.0455	0.0489	0.0362	0.0361	0.0409	0.0526	0.0678
Total composite emission factor (g/Veh/mile)		0.07	0.05	0.05	0.05	0.05	0.04	0.04	0.05	0.09	0.09	0.08	0.06	0.07	0.06	0.07	0.06	0.07	0.08	0.06	0.06	0.07	0.08	0.11	0.11

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM7, Siu Lang Shui Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	0	0	0	0	0	0	1	4	8	10	7	5	5	7	5	7	7	7	5	1	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	8	15	18	11	9	9	9	11	9	9	11	11	2	0	0	0	
7	HGV8	0	0	0	0	0	0	0	6	13	14	8	7	7	8	7	8	8	8	4	2	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	1	3	6	8	4	2	2	2	4	2	2	4	4	2	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		0	0	0	0	0	0	2	21	47	55	31	24	24	24	31	24	24	31	14	3	0	0	0	

PM10 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																							
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
LGV4	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
PLB	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
LGV6	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052
HGV7	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
HGV8	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.127
FBDD	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149
MC	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
PV5	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
NFB6	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061
NFB7	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059
NFB8	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219
FBSD	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0017	0.0559	0.0548	0.0520	0.0519	0.0573	0.0573	0.0573	0.0573	0.0573	0.0573	0.0519	0.0461	0.0859	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.09	0.08	0.08	0.09	0.09	0.08	0.09	0.09	0.08	0.07	0.14	0.00	0.00	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM8_Unnamed Road to Cemetery
 Year: 2019

Vehicle Classes	Description	Hour																									
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1	PC	0	0	0	0	0	0	0	0	2	3	2	1	1	1	2	0	1	1	2	1	0	1	0	0		
2	LGV3	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	1	1	1	1	1	0	0	0	0		
3	LGV4	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4	PLB	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5	LGV6	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
6	HGV7	0	0	0	0	0	0	0	1	3	3	2	2	2	2	2	2	2	2	2	2	0	0	0	0		
7	HGV8	0	0	0	0	0	0	0	1	2	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	0	1	0	0	0	0		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total Flow (veh)		0	0	0	0	0	0	0	2	11	12	5	5	4	5	5	4	5	4	5	4	5	3	0	1	0	0

PM10 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
LGV4	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022
PLB	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
LGV6	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
HGV7	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047
HGV8	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119
FBDD	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141
MC	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
PV5	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032
NFB6	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057
NFB7	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
NFB8	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206
FBSD	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0830	0.0433	0.0425	0.0237	0.0431	0.0289	0.0231	0.0237	0.0531	0.0231	0.0289	0.0237	0.0074	0.0000	0.0029	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.07	0.07	0.04	0.07	0.05	0.04	0.04	0.09	0.04	0.05	0.04	0.01	0.00	0.00	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM9, Siu Lang Shui Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	0	0	0	0	0	0	1	4	10	13	9	6	6	6	9	5	6	8	9	6	1	1	0	0
2	LGV3	0	0	0	0	0	0	0	0	2	1	2	1	2	2	1	2	2	2	2	2	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	11	13	13	2	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	7	15	16	8	8	7	7	8	8	5	8	8	4	2	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Flow (veh)		0	0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	0	0

PM10 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
LGV3	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	
LGV4	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	
PLB	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	
LGV6	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	
HGV7	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	
HGV8	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	
FBDD	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	
MC	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	
PV5	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	
NFB6	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	
NFB7	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	
NFB8	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	
FBSD	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0017	0.0598	0.0541	0.0516	0.0491	0.0563	0.0545	0.0526	0.0491	0.0582	0.0469	0.0504	0.0491	0.0401	0.0874	0.0034	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.09	0.08	0.08	0.09	0.09	0.08	0.08	0.09	0.08	0.08	0.08	0.06	0.14	0.01	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM10_Lung Fat Street
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	0	0	0	0	0	0	1	4	10	13	9	6	6	6	9	5	6	8	9	6	1	1	0	0
2	LGV3	0	0	0	0	0	0	0	0	2	1	2	1	2	2	1	2	2	2	2	2	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	11	13	13	2	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	7	15	16	8	8	7	7	8	8	5	8	8	4	2	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Flow (veh)		0	0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	0	0

PM10 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
LGV4	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
PLB	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
LGV6	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052
HGV7	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051
HGV8	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129	0.129
FBDD	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152	0.152
MC	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
PV5	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
NFB6	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062
NFB7	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060
NFB8	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223	0.223
FBSD	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0017	0.0598	0.0541	0.0516	0.0491	0.0563	0.0545	0.0526	0.0491	0.0582	0.0469	0.0504	0.0491	0.0401	0.0874	0.0034	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.09	0.09	0.08	0.08	0.09	0.08	0.08	0.09	0.08	0.08	0.08	0.08	0.14	0.01	0.00	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM11_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
1	PC	6	4	3	1	2	8	23	93	128	137	193	196	166	159	178	180	176	169	184	166	129	27	11	7
2	LGV3	2	4	4	2	2	6	13	19	38	43	56	54	50	47	54	54	52	54	55	50	53	18	6	3
3	LGV4	1	1	1	3	2	6	9	10	24	26	48	46	43	41	47	46	47	47	46	43	43	11	5	2
4	PLB	5	3	2	2	2	2	3	6	6	6	12	11	10	11	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	6	9	10	25	26	43	41	39	37	42	41	42	42	41	39	40	14	4	2
6	HGV7	0	0	0	0	0	0	2	6	177	222	159	149	142	122	140	155	152	132	119	10	3	0	0	
7	HGV8	0	0	0	0	0	0	4	15	103	121	47	38	50	45	62	58	40	32	67	12	11	7	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	6	6	5	4	4	4
10	TAXI	4	3	3	2	3	5	12	52	67	72	74	81	73	67	74	75	74	74	76	72	63	23	5	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
Total Flow (veh)		35	21	19	17	17	37	85	228	595	684	720	700	649	600	693	704	676	646	688	478	420	168	91	69

PM10 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.002	0.002	0.002
LGV3	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.023	0.023	0.023	0.024	0.020	0.020	0.020	0.020	0.020	0.019	0.024	0.024	0.024	0.023	0.023	0.017	0.017	0.016
LGV4	0.018	0.018	0.018	0.018	0.018	0.018	0.019	0.026	0.026	0.026	0.027	0.022	0.022	0.022	0.023	0.021	0.027	0.027	0.027	0.026	0.026	0.019	0.019	0.018	0.018
PLB	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.029	0.030	0.030	0.030	0.026	0.026	0.026	0.026	0.025	0.030	0.030	0.030	0.030	0.030	0.024	0.024	0.024	0.024
LGV6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.054	0.055	0.055	0.055	0.050	0.050	0.050	0.050	0.051	0.050	0.055	0.055	0.055	0.055	0.048	0.048	0.048	0.048
HGV7	0.042	0.041	0.041	0.041	0.041	0.041	0.042	0.054	0.055	0.055	0.056	0.047	0.047	0.047	0.047	0.048	0.046	0.056	0.056	0.056	0.055	0.042	0.042	0.042	0.042
HGV8	0.108	0.107	0.107	0.107	0.107	0.107	0.108	0.137	0.139	0.139	0.142	0.121	0.121	0.121	0.121	0.123	0.118	0.142	0.142	0.142	0.139	0.139	0.108	0.108	0.108
FBDD	0.130	0.129	0.129	0.129	0.129	0.129	0.130	0.160	0.163	0.163	0.166	0.143	0.143	0.143	0.143	0.145	0.139	0.166	0.166	0.166	0.163	0.130	0.130	0.130	0.130
MC	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.009	0.010	0.010	0.010	0.008	0.008	0.008	0.008	0.007	0.010	0.010	0.010	0.010	0.010	0.007	0.006	0.006	0.006
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.025	0.026	0.026	0.026	0.021	0.021	0.021	0.021	0.022	0.020	0.026	0.026	0.026	0.026	0.018	0.018	0.017	0.017
PV5	0.030	0.029	0.029	0.029	0.029	0.029	0.030	0.038	0.039	0.039	0.040	0.033	0.033	0.033	0.033	0.032	0.040	0.040	0.040	0.039	0.039	0.030	0.030	0.030	0.030
NFB6	0.052	0.052	0.052	0.052	0.052	0.052	0.053	0.067	0.069	0.069	0.070	0.058	0.058	0.058	0.058	0.059	0.056	0.070	0.070	0.070	0.069	0.053	0.053	0.052	0.052
NFB7	0.050	0.050	0.050	0.050	0.050	0.050	0.051	0.063	0.065	0.065	0.066	0.057	0.057	0.057	0.058	0.055	0.066	0.066	0.066	0.066	0.065	0.051	0.051	0.050	0.050
NFB8	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.235	0.239	0.239	0.244	0.209	0.209	0.209	0.212	0.203	0.244	0.244	0.244	0.244	0.239	0.187	0.187	0.187	0.187
FBSD	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.166	0.169	0.169	0.172	0.150	0.150	0.150	0.152	0.147	0.172	0.172	0.172	0.169	0.169	0.138	0.138	0.138	0.138
Total composite emission factor (g/Veh/km)		0.0520	0.0365	0.0390	0.0415	0.0378	0.0266	0.0303	0.0268	0.0522	0.0538	0.0448	0.0360	0.0388	0.0384	0.0409	0.0384	0.0443	0.0433	0.0474	0.0344	0.0347	0.0445	0.0600	0.0697
Total composite emission factor (g/Veh/mile)		0.08	0.06	0.06	0.07	0.06	0.04	0.05	0.04	0.08	0.09	0.06	0.06	0.06	0.06	0.07	0.06	0.07	0.07	0.08	0.06	0.06	0.07	0.10	0.11

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM12_Unnamed Road to EcoPark
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	4	3	2	3	3	3	4	9	14	15	17	15	15	14	16	15	16	16	15	12	10	8	2	
2	LGV3	0	0	0	0	0	1	3	5	8	7	7	6	6	7	7	7	7	7	6	5	0	0	0	
3	LGV4	0	0	0	0	0	1	1	4	6	6	6	5	5	6	6	5	6	6	5	5	0	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	1	1	4	6	6	6	5	5	6	6	5	6	6	5	5	0	0	0	
6	HGV7	0	0	0	0	0	0	0	2	7	8	5	4	4	4	5	4	4	5	5	2	1	0	0	
7	HGV8	0	0	0	0	0	0	0	6	38	42	25	24	23	21	24	24	19	24	24	15	10	1	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	1	1	2	1	1	1	1	5	9	9	10	10	9	9	10	10	10	10	9	7	6	5	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		5	4	4	4	4	7	10	35	88	94	76	72	67	64	74	72	65	74	74	57	45	17	13	2

PM10 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	
LGV3	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	
LGV4	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	
PLB	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	
LGV6	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	
HGV7	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	
HGV8	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	
FBDD	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	
MC	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	
PV5	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	
NFB6	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	
NFB7	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	
NFB8	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	0.254	
FBSD	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	0.178	
Total composite emission factor (g/Veh/km)		0.0034	0.0032	0.0022	0.0032	0.0032	0.0175	0.0177	0.0431	0.0774	0.0795	0.0626	0.0631	0.0639	0.0622	0.0622	0.0631	0.0572	0.0622	0.0622	0.0523	0.0478	0.0113	0.0026	0.0043
Total composite emission factor (g/Veh/mile)		0.01	0.01	0.00	0.01	0.01	0.03	0.03	0.07	0.12	0.13	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.10	0.10	0.08	0.02	0.00	0.01	

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM13_Lung Yiu Street
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	4	2	1	1	0	3	10	20	32	34	26	23	22	22	24	23	24	24	22	13	4	6	1	
2	LGV3	1	1	0	1	0	1	5	12	18	19	12	11	10	9	11	11	11	12	10	3	3	2	0	
3	LGV4	0	0	0	0	0	0	4	6	14	15	10	9	8	7	9	9	9	10	8	5	2	1	2	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	4	6	14	15	9	8	7	6	8	8	8	9	7	3	2	1	1	
6	HGV7	0	0	0	0	0	0	1	4	28	32	21	17	19	18	21	20	20	19	3	3	1	0	0	
7	HGV8	0	0	0	0	0	0	2	4	38	42	21	17	19	18	21	20	20	19	3	3	1	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0
10	TAXI	2	1	1	0	0	0	5	12	19	21	12	11	10	10	11	11	11	12	10	4	3	2	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Flow (veh)		7	4	2	2	0	4	31	70	169	184	118	103	102	97	112	109	109	110	112	64	35	16	13	4

PM10 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
LGV3	0.022	0.022	0.022	0.022	0.022	0.022	0.023	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.025	0.025	0.025	0.024	0.024	0.024	0.024	0.022	0.022
LGV4	0.025	0.025	0.025	0.025	0.025	0.025	0.026	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.025	0.025
PLB	0.028	0.028	0.028	0.028	0.028	0.028	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.031	0.031	0.031	0.030	0.030	0.030	0.030	0.028	0.028	0.028
LGV6	0.053	0.053	0.053	0.053	0.053	0.053	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.056	0.056	0.056	0.055	0.055	0.055	0.055	0.053	0.053	0.053
HGV7	0.053	0.053	0.053	0.053	0.053	0.053	0.055	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.057	0.057	0.057	0.056	0.056	0.056	0.056	0.053	0.053
HGV8	0.134	0.134	0.134	0.134	0.134	0.134	0.139	0.142	0.142	0.142	0.142	0.142	0.142	0.142	0.142	0.145	0.145	0.145	0.142	0.142	0.142	0.142	0.134	0.134	0.134
FBDD	0.157	0.157	0.157	0.157	0.157	0.157	0.163	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.169	0.169	0.169	0.166	0.166	0.166	0.166	0.157	0.157
MC	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.009	0.009	0.009
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.024	0.024	0.024	0.024	0.024	0.024	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.027	0.027	0.027	0.026	0.026	0.026	0.026	0.024	0.024
PV5	0.037	0.037	0.037	0.037	0.037	0.037	0.039	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.042	0.042	0.042	0.040	0.040	0.040	0.040	0.037	0.037	0.037
NFB6	0.065	0.065	0.065	0.065	0.065	0.065	0.069	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.065	0.065	0.065
NFB7	0.062	0.062	0.062	0.062	0.062	0.062	0.065	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.067	0.067	0.067	0.066	0.066	0.066	0.066	0.062	0.062
NFB8	0.231	0.231	0.231	0.231	0.231	0.231	0.239	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.231	0.231	0.231
FBSD	0.164	0.164	0.164	0.164	0.164	0.164	0.169	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.175	0.175	0.175	0.172	0.172	0.172	0.172	0.164	0.164	0.164
Total composite emission factor (g/Veh/km)		0.0053	0.0074	0.0018	0.0130	0.0000	0.0083	0.0262	0.0345	0.0559	0.0562	0.0516	0.0503	0.0536	0.0532	0.0533	0.0530	0.0541	0.0536	0.0518	0.0240	0.0294	0.0281	0.0126	0.0267
Total composite emission factor (g/Veh/mile)		0.01	0.01	0.00	0.02	0.00	0.01	0.04	0.06	0.09	0.09	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.04	0.05	0.05	0.02	0.04

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM14_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	2	2	2	0	2	5	13	73	96	103	167	173	144	137	154	157	153	145	160	144	116	23	5	6
2	LGV3	1	3	4	1	2	5	8	7	20	24	44	43	40	38	43	41	43	43	40	50	15	4	3	
3	LGV4	1	1	1	3	2	6	5	4	10	11	38	37	35	34	38	37	38	38	36	35	38	9	4	0
4	PLB	5	3	2	2	2	2	3	6	6	6	12	11	10	10	11	11	11	12	10	8	8	7	6	
5	LGV6	1	1	1	3	2	6	5	4	11	11	34	33	32	31	34	33	34	32	32	37	12	3	1	
6	HGV7	0	0	0	0	0	0	1	2	149	190	138	132	123	104	119	135	132	112	100	7	7	2	0	0
7	HGV8	0	0	0	0	0	0	2	11	65	79	26	21	31	27	41	38	20	12	48	9	8	6	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	
9	MC	0	0	0	0	0	0	0	1	1	1	5	5	4	5	5	5	5	5	5	4	4	4	3	4
10	TAXI	2	2	2	2	3	5	7	40	48	51	62	70	63	57	63	64	63	63	64	62	59	20	3	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	4	4	4	3	2	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
Total Flow (veh)		28	17	17	15	17	33	54	158	426	500	602	597	547	503	581	595	567	536	576	414	385	152	78	65

PM10 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.002	0.002	0.002	0.002
LGV3	0.016	0.016	0.016	0.016	0.016	0.016	0.017	0.023	0.023	0.023	0.024	0.020	0.020	0.020	0.020	0.019	0.024	0.024	0.024	0.023	0.023	0.017	0.017	0.016	0.016
LGV4	0.018	0.018	0.018	0.018	0.018	0.018	0.019	0.026	0.026	0.026	0.027	0.022	0.022	0.022	0.023	0.021	0.027	0.027	0.026	0.026	0.019	0.019	0.019	0.018	0.018
PLB	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.029	0.030	0.030	0.030	0.026	0.026	0.026	0.025	0.030	0.030	0.030	0.030	0.030	0.024	0.024	0.024	0.024	0.024
LGV6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.054	0.055	0.055	0.055	0.050	0.050	0.050	0.051	0.050	0.055	0.055	0.055	0.055	0.048	0.048	0.048	0.048	0.048
HGV7	0.042	0.041	0.041	0.041	0.041	0.041	0.042	0.054	0.055	0.055	0.056	0.047	0.047	0.047	0.048	0.046	0.056	0.056	0.056	0.055	0.042	0.042	0.042	0.042	0.042
HGV8	0.108	0.107	0.107	0.107	0.107	0.107	0.108	0.137	0.139	0.139	0.142	0.121	0.121	0.121	0.123	0.118	0.142	0.142	0.142	0.139	0.139	0.108	0.108	0.108	0.108
FBDD	0.130	0.129	0.129	0.129	0.129	0.129	0.130	0.160	0.163	0.163	0.166	0.143	0.143	0.143	0.145	0.139	0.166	0.166	0.166	0.163	0.163	0.130	0.130	0.130	0.130
MC	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.009	0.010	0.010	0.010	0.008	0.008	0.008	0.008	0.007	0.010	0.010	0.010	0.010	0.007	0.006	0.006	0.006	0.006
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.025	0.026	0.026	0.026	0.021	0.021	0.021	0.022	0.020	0.026	0.026	0.026	0.026	0.018	0.018	0.018	0.017	0.017
PV5	0.030	0.029	0.029	0.029	0.029	0.029	0.030	0.038	0.039	0.039	0.040	0.033	0.033	0.033	0.033	0.032	0.040	0.040	0.040	0.039	0.039	0.030	0.030	0.030	0.030
NFB6	0.052	0.052	0.052	0.052	0.052	0.052	0.053	0.067	0.069	0.069	0.070	0.058	0.058	0.058	0.059	0.056	0.070	0.070	0.070	0.069	0.069	0.053	0.053	0.052	0.052
NFB7	0.050	0.050	0.050	0.050	0.050	0.050	0.051	0.063	0.065	0.065	0.066	0.057	0.057	0.057	0.058	0.055	0.066	0.066	0.066	0.065	0.065	0.051	0.051	0.050	0.050
NFB8	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.235	0.239	0.239	0.244	0.209	0.209	0.209	0.212	0.203	0.244	0.244	0.244	0.239	0.239	0.187	0.187	0.187	0.187
FBSD	0.138	0.138	0.138	0.138	0.138	0.138	0.138	0.166	0.169	0.169	0.172	0.150	0.150	0.150	0.152	0.147	0.172	0.172	0.172	0.169	0.169	0.138	0.138	0.138	0.138
Total composite emission factor (g/Veh/km)		0.0641	0.0439	0.0434	0.0458	0.0378	0.0291	0.0360	0.0240	0.0512	0.0534	0.0435	0.0349	0.0375	0.0371	0.0398	0.0375	0.0427	0.0414	0.0468	0.0361	0.0353	0.0469	0.0684	0.0726
Total composite emission factor (g/Veh/mile)		0.10	0.07	0.07	0.07	0.06	0.05	0.06	0.04	0.08	0.09	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.08	0.06	0.06	0.08	0.11	0.12	0.12

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM15_Lung Yiu Street
 Year: 2019

Vehicle Classes	Description	Hour																								
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
1	PC	3	1	1	1	0	2	7	14	22	23	11	9	9	9	9	9	9	9	9	9	5	1	4	1	
2	LGV3	1	1	0	1	0	1	3	9	13	13	4	4	3	3	4	4	3	4	4	0	1	2	0		
3	LGV4	0	0	0	0	0	0	2	2	9	10	3	4	3	2	3	4	4	3	4	4	1	1	1	2	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	2	2	9	10	2	3	2	1	2	3	3	2	3	2	0	1	1	1	
6	HGV7	0	0	0	0	0	0	1	2	18	21	16	12	15	14	17	15	15	16	14	1	2	0	0	0	
7	HGV8	0	0	0	0	0	0	1	2	24	27	16	12	15	14	17	15	15	16	14	1	2	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	
10	TAXI	1	0	1	0	0	0	3	9	13	15	2	2	1	2	1	2	2	1	2	1	1	1	1	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		5	2	2	2	0	3	19	46	114	125	58	50	53	49	56	56	56	56	54	54	22	12	5	10	4

PM10 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
LGV4	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
PLB	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
LGV6	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
HGV7	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
HGV8	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116	0.116
FBDD	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137
MC	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
PV5	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
NFB6	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055
NFB7	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054
NFB8	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
FBSD	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145	0.145
Total composite emission factor (g/Veh/km)		0.0054	0.0107	0.0014	0.0107	0.0000	0.0081	0.0198	0.0280	0.0452	0.0456	0.0545	0.0516	0.0565	0.0560	0.0589	0.0547	0.0547	0.0581	0.0537	0.0195	0.0303	0.0183	0.0126	0.0235
Total composite emission factor (g/Veh/mile)		0.01	0.02	0.00	0.02	0.00	0.01	0.03	0.05	0.07	0.07	0.09	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.03	0.05	0.03	0.02	0.04

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM16_Lung Hong Street
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	1	1	0	0	0	1	3	6	10	11	15	14	13	13	15	14	14	15	15	13	8	3	2	0
2	LGV3	0	0	0	0	0	0	2	3	5	6	8	7	6	6	8	7	7	8	8	6	3	2	0	0
3	LGV4	0	0	0	0	0	0	2	4	5	5	7	5	5	6	5	5	6	6	5	4	1	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	2	4	5	5	7	5	5	6	5	5	6	6	5	3	1	0	0	0
6	HGV7	0	0	0	0	0	0	2	10	11	5	5	4	4	4	5	5	4	5	2	1	1	0	0	0
7	HGV8	0	0	0	0	0	0	1	2	14	15	5	5	4	4	5	5	4	5	2	1	1	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	1	1	0	0	0	0	2	3	6	6	10	9	9	8	10	9	9	10	10	9	3	2	1	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Flow (veh)		2	2	0	0	0	1	12	24	55	59	60	53	49	48	56	53	56	58	42	23	11	3	0	

PM10 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
LGV4	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
PLB	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
LGV6	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
HGV7	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
HGV8	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118	0.118
FBDD	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139	0.139
MC	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
PV5	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032
NFB6	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
NFB7	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055
NFB8	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203	0.203
FBSD	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147
Total composite emission factor (g/Veh/km)		0.0014	0.0014	0.0000	0.0000	0.0000	0.0028	0.0255	0.0285	0.0469	0.0469	0.0303	0.0313	0.0300	0.0307	0.0283	0.0313	0.0313	0.0283	0.0302	0.0198	0.0207	0.0255	0.0019	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.04	0.05	0.08	0.08	0.08	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.03	0.03	0.04	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: R5_Internal Road
 Year: 2019

Vehicle Classes	Description	Hour																									
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Flow (veh)		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	0	0	0	0

PM10 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																									
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
PC	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
LGV3	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
LGV4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
PLB	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
LGV6	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
HGV7	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161
HGV8	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329
FBDD	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328
MC	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054
PV5	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
NFB6	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
NFB7	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153
NFB8	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521
FBSD	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3034	0.3033	0.3041	0.3035	0.3040	0.3042	0.3034	0.3041	0.3038	0.3031	0.3043	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.00	0.00	0.00	0.00	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: R6_Internal Road
 Year: 2019

Vehicle Classes	Description	Hour																									
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0	0	0	0	0
7	HGV8	0	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0	0	0	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Flow (veh)		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0	0	0	0	0

PM10 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																									
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
PC	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
LGV3	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
LGV4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
PLB	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068
LGV6	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
HGV7	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161	0.161
HGV8	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329
FBDD	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328	0.328
MC	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054
PV5	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094	0.094
NFB6	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164
NFB7	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153
NFB8	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521	0.521
FBSD	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320	0.320
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3034	0.3033	0.3041	0.3035	0.3040	0.3042	0.3034	0.3041	0.3038	0.3031	0.3043	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.00	0.00	0.00	0.00	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

0529880 TMFB

Pollutant Name: PM2.5

Speed km/hr	PC	LGV3	LGV4	PLB	LGV6	HGV7	HGV8	HGV8b	FBDD	MC	TAXI	PV4	PV5	NFB6	NFB7	NFB8	FBSD
	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
10	0.010	0.042	0.046	0.062	0.088	0.148	0.303	0.118	0.302	0.019	0.000	0.050	0.087	0.151	0.141	0.479	0.295
17	0.007	0.034	0.037	0.045	0.069	0.089	0.207	0.084	0.229	0.014	0.000	0.039	0.066	0.113	0.095	0.342	0.227
18	0.007	0.033	0.036	0.043	0.067	0.085	0.199	0.081	0.222	0.014	0.000	0.038	0.063	0.109	0.091	0.329	0.221
27	0.005	0.025	0.029	0.032	0.055	0.060	0.150	0.063	0.173	0.010	0.000	0.029	0.045	0.078	0.069	0.255	0.177
28	0.005	0.025	0.028	0.031	0.055	0.058	0.146	0.062	0.169	0.009	0.000	0.028	0.044	0.076	0.067	0.249	0.173
29	0.004	0.024	0.027	0.030	0.054	0.057	0.143	0.060	0.166	0.009	0.000	0.027	0.042	0.073	0.066	0.243	0.170
30	0.004	0.024	0.026	0.030	0.053	0.055	0.140	0.059	0.162	0.009	0.000	0.026	0.041	0.071	0.064	0.238	0.167
31	0.004	0.023	0.026	0.029	0.052	0.054	0.137	0.058	0.159	0.008	0.000	0.026	0.039	0.069	0.063	0.233	0.164
32	0.004	0.023	0.025	0.028	0.052	0.053	0.134	0.057	0.156	0.008	0.000	0.025	0.038	0.067	0.062	0.229	0.161
33	0.004	0.022	0.025	0.028	0.051	0.052	0.131	0.056	0.153	0.008	0.000	0.024	0.037	0.065	0.061	0.224	0.158
34	0.004	0.021	0.024	0.027	0.050	0.050	0.128	0.054	0.150	0.008	0.000	0.024	0.036	0.063	0.059	0.220	0.155
35	0.004	0.021	0.024	0.027	0.050	0.049	0.126	0.054	0.147	0.007	0.000	0.023	0.035	0.061	0.058	0.216	0.153
36	0.003	0.021	0.023	0.026	0.049	0.048	0.123	0.053	0.144	0.007	0.000	0.022	0.034	0.060	0.057	0.212	0.151
37	0.003	0.020	0.023	0.026	0.049	0.047	0.121	0.052	0.142	0.007	0.000	0.022	0.033	0.059	0.056	0.209	0.148
38	0.003	0.020	0.022	0.025	0.048	0.047	0.119	0.051	0.140	0.007	0.000	0.021	0.033	0.057	0.055	0.205	0.146
39	0.003	0.019	0.022	0.025	0.048	0.046	0.117	0.050	0.137	0.007	0.000	0.021	0.032	0.056	0.055	0.202	0.144
40	0.003	0.019	0.021	0.025	0.047	0.045	0.115	0.049	0.135	0.007	0.000	0.020	0.031	0.055	0.054	0.198	0.142
41	0.003	0.018	0.021	0.024	0.047	0.044	0.113	0.048	0.133	0.006	0.000	0.020	0.031	0.054	0.053	0.195	0.140
42	0.003	0.018	0.020	0.024	0.046	0.044	0.112	0.048	0.132	0.006	0.000	0.020	0.030	0.053	0.052	0.192	0.138
43	0.003	0.018	0.020	0.024	0.046	0.043	0.110	0.047	0.130	0.006	0.000	0.019	0.030	0.052	0.051	0.190	0.137
44	0.003	0.017	0.020	0.023	0.046	0.042	0.108	0.046	0.128	0.006	0.000	0.019	0.029	0.052	0.051	0.187	0.135
45	0.003	0.017	0.019	0.023	0.045	0.042	0.107	0.046	0.126	0.006	0.000	0.018	0.029	0.051	0.050	0.184	0.134
50	0.002	0.016	0.018	0.022	0.044	0.039	0.100	0.043	0.120	0.005	0.000	0.017	0.028	0.049	0.047	0.172	0.127
51	0.002	0.015	0.017	0.022	0.044	0.039	0.099	0.043	0.119	0.005	0.000	0.016	0.027	0.048	0.047	0.172	0.127
52	0.002	0.015	0.017	0.022	0.044	0.038	0.099	0.043	0.119	0.005	0.000	0.016	0.027	0.048	0.046	0.172	0.127
53	0.002	0.015	0.017	0.022	0.044	0.038	0.099	0.043	0.119	0.005	0.000	0.016	0.027	0.048	0.046	0.172	0.127
54	0.002	0.015	0.016	0.022	0.044	0.037	0.098	0.043	0.119	0.005	0.000	0.016	0.027	0.048	0.045	0.172	0.127

EMFAC-HK Model (v 4.1) Key Assumptions:

- Mode: EMFAC
- Calendar Year: 2019
- Temperature and relative humidity: 24 degree C, 77% (2018 average at Tuen Mun Weather Station)
- Vehicle Population (external traffic): Default (i.e. HGV8 emission factors for Roads R1 to R7, R9, R25 to R28)
- Vehicle Population (internal traffic): All HGV8 (year 2019) are of Euro V standard (i.e. HGV8b emission factors for Roads R8, R11, R14, R15, R17 to R22)
- Vehicle Accrual: Default
- Trips: Default (not used. No starting emissions as parking restrictions apply for all identified major roads within the Study Area)
- VKT: Default (not used in EMFAC mode)

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM1_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	16	11	8	5	6	12	32	113	163	176	247	240	209	200	228	223	220	218	236	209	160	51	32	19
2	LGV3	7	5	5	3	3	8	17	29	55	59	76	71	66	63	72	71	70	72	75	66	66	25	13	8
3	LGV4	4	2	2	3	2	7	11	17	36	38	62	58	54	52	59	58	58	59	60	54	54	17	11	6
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	4	2	2	3	2	7	11	17	36	38	57	53	50	48	54	53	54	55	50	51	20	10	6	6
6	HGV7	0	0	0	0	0	0	4	20	286	364	274	254	231	225	261	262	268	251	214	16	12	4	0	0
7	HGV8	0	0	0	0	0	0	10	48	666	831	645	590	565	524	632	621	628	588	496	39	28	10	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	6	5	6	6	6	6	6	6	5	4	4	4
10	TAXI	9	5	6	4	5	7	15	64	88	96	100	103	92	87	99	97	96	99	102	92	76	34	15	5
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
Total Flow (veh)		61	33	30	24	24	47	113	331	1367	1643	1561	1464	1353	1281	1501	1480	1486	1437	1338	612	518	226	141	98

PM2.5 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.005	0.005	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003	0.003	0.002	0.002	0.002	0.002
LGV3	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.021	0.025	0.025	0.021	0.018	0.018	0.017	0.018	0.018	0.021	0.024	0.023	0.019	0.019	0.016	0.015	0.015	0.015
LGV4	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.024	0.028	0.029	0.024	0.021	0.020	0.020	0.021	0.021	0.024	0.026	0.021	0.021	0.018	0.017	0.017	0.017	0.017
PLB	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.027	0.031	0.032	0.027	0.024	0.024	0.023	0.024	0.024	0.027	0.030	0.029	0.025	0.025	0.022	0.022	0.022	0.022
LGV6	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.050	0.055	0.055	0.050	0.047	0.046	0.046	0.047	0.047	0.050	0.054	0.052	0.047	0.047	0.044	0.044	0.044	0.044
HGV7	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.049	0.058	0.060	0.049	0.044	0.044	0.042	0.044	0.044	0.050	0.057	0.054	0.045	0.045	0.039	0.039	0.038	0.038
HGV8	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.126	0.146	0.150	0.126	0.113	0.112	0.108	0.113	0.113	0.128	0.143	0.137	0.115	0.115	0.100	0.099	0.099	0.099
FBDD	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.147	0.169	0.173	0.147	0.133	0.132	0.128	0.133	0.133	0.150	0.166	0.159	0.135	0.135	0.120	0.119	0.119	0.119
MC	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.007	0.009	0.010	0.007	0.006	0.006	0.006	0.006	0.006	0.008	0.009	0.008	0.007	0.007	0.005	0.005	0.005	0.005
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.023	0.028	0.029	0.023	0.020	0.020	0.019	0.020	0.020	0.024	0.027	0.026	0.020	0.020	0.017	0.016	0.016	0.016
PV5	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.035	0.044	0.045	0.035	0.031	0.030	0.029	0.031	0.031	0.036	0.042	0.039	0.031	0.031	0.028	0.027	0.027	0.027
NFB6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.061	0.076	0.078	0.061	0.054	0.053	0.052	0.054	0.054	0.063	0.073	0.069	0.055	0.055	0.049	0.048	0.048	0.048
NFB7	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.058	0.067	0.069	0.058	0.053	0.052	0.051	0.053	0.053	0.059	0.066	0.063	0.054	0.054	0.047	0.047	0.046	0.046
NFB8	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.216	0.249	0.256	0.216	0.195	0.192	0.187	0.195	0.195	0.220	0.243	0.233	0.198	0.198	0.172	0.172	0.172	0.172
FBSD	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.153	0.173	0.177	0.153	0.140	0.138	0.135	0.140	0.140	0.155	0.170	0.164	0.142	0.142	0.127	0.127	0.127	0.127
Total composite emission factor (g/Veh/km)		0.0320	0.0241	0.0255	0.0280	0.0256	0.0213	0.0287	0.0340	0.0900	0.0953	0.0711	0.0628	0.0633	0.0607	0.0648	0.0647	0.0738	0.0807	0.0723	0.0297	0.0294	0.0343	0.0393	0.0486
Total composite emission factor (g/Veh/mile)		0.05	0.04	0.04	0.05	0.04	0.03	0.05	0.05	0.15	0.15	0.11	0.10	0.10	0.10	0.10	0.10	0.12	0.13	0.12	0.05	0.05	0.06	0.06	0.08

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM2_Unnamed Road to River Trade Terminal
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	4	3	2	1	1	1	3	5	8	17	13	13	13	15	13	13	15	17	13	10	7	7	5	
2	LGV3	3	1	1	1	1	1	3	5	5	5	5	4	4	5	5	5	5	5	4	4	3	3	3	
3	LGV4	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	3	3	3	4	3	3	2	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	2	1	1	0	0	0	1	2	3	3	4	3	3	3	3	3	3	4	3	3	3	2		
6	HGV7	0	0	0	0	0	0	2	2	64	69	57	52	38	56	63	54	59	63	65	1	1	1	0	
7	HGV8	0	0	0	0	0	0	6	16	396	406	333	306	277	265	314	311	324	314	331	2	2	1	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	2	1	1	1	1	1	2	4	5	5	3	3	3	5	3	3	5	5	3	1	1	1	1	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		13	7	6	3	3	3	15	32	483	499	425	385	341	347	408	392	410	408	431	29	24	19	17	13

PM2.5 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	
LGV3	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.033	0.033	0.033	0.033	0.033	
LGV4	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.036	0.036	0.036	0.036	0.036	
PLB	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.043	0.043	0.043	0.043	0.043	
LGV6	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.067	0.067	0.067	0.067	0.067	
HGV7	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.089	0.085	0.085	0.085	0.085	0.085	
HGV8	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.199	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.199	0.199	0.199	0.199	0.199	
FBDD	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.222	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.229	0.222	0.222	0.222	0.222	0.222	
MC	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.038	0.038	0.038	0.038	0.038	
PV5	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.063	0.063	0.063	0.063	0.063	
NFB6	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.109	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.113	0.109	0.109	0.109	0.109	0.109	
NFB7	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.095	0.091	0.091	0.091	0.091	0.091	
NFB8	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.329	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.342	0.329	0.329	0.329	0.329	0.329	
FBSD	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.221	0.221	0.221	0.221	0.221	
Total composite emission factor (g/Veh/km)		0.0255	0.0224	0.0249	0.0132	0.0132	0.0132	0.0102	0.1152	0.1826	0.1817	0.1757	0.1780	0.1796	0.1740	0.1744	0.1779	0.1777	0.1744	0.1740	0.0349	0.0413	0.0389	0.0268	0.0261
Total composite emission factor (g/Veh/mile)		0.04	0.04	0.04	0.02	0.02	0.02	0.16	0.19	0.29	0.29	0.28	0.29	0.29	0.28	0.28	0.29	0.29	0.28	0.28	0.06	0.07	0.06	0.04	0.04

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM3_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	12	8	6	4	5	11	29	108	155	168	230	227	196	187	213	210	207	203	219	196	150	44	25	14
2	LGV3	4	4	4	2	2	7	16	26	50	54	71	66	62	59	67	66	65	67	70	62	62	22	10	5
3	LGV4	2	1	1	3	2	7	10	15	33	35	58	55	51	49	56	55	55	56	56	51	51	14	8	4
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	2	1	1	3	2	7	10	15	33	35	53	50	47	45	51	50	50	51	51	47	48	17	7	4
6	HGV7	0	0	0	0	0	0	2	18	222	295	217	202	193	169	198	208	209	188	149	15	11	3	0	0
7	HGV8	0	0	0	0	0	0	4	32	270	425	312	284	288	259	318	310	304	274	165	37	26	9	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	6	5	6	6	6	6	6	6	5	4	4	4
10	TAXI	7	4	5	3	4	6	14	62	84	91	95	100	89	84	94	94	93	94	97	89	75	33	14	4
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
Total Flow (veh)		48	26	24	21	21	44	98	299	884	1144	1136	1079	1012	934	1093	1088	1076	1029	907	583	494	207	124	85

PM2.5 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.003	0.003	0.002	0.002	0.002
LGV3	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.020	0.021	0.021	0.021	0.017	0.017	0.018	0.018	0.018	0.021	0.021	0.021	0.024	0.023	0.018	0.017	0.016	0.015
LGV4	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.023	0.024	0.024	0.024	0.020	0.020	0.020	0.021	0.021	0.021	0.024	0.027	0.026	0.021	0.020	0.018	0.017	0.017
PLB	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.026	0.027	0.027	0.027	0.023	0.023	0.024	0.024	0.024	0.027	0.030	0.029	0.024	0.023	0.022	0.022	0.022	0.022
LGV6	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.049	0.050	0.050	0.050	0.046	0.046	0.046	0.047	0.047	0.050	0.054	0.052	0.047	0.046	0.044	0.044	0.044	0.044
HGV7	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.047	0.049	0.049	0.049	0.042	0.042	0.043	0.044	0.044	0.050	0.057	0.054	0.044	0.042	0.039	0.039	0.038	0.038
HGV8	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.121	0.126	0.126	0.126	0.108	0.108	0.110	0.113	0.113	0.128	0.143	0.137	0.113	0.108	0.100	0.099	0.099	0.099
FBDD	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.142	0.147	0.147	0.147	0.128	0.128	0.130	0.133	0.133	0.150	0.166	0.159	0.133	0.128	0.120	0.119	0.119	
MC	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.008	0.009	0.008	0.006	0.006	0.005	0.005	0.005	0.005
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.022	0.023	0.023	0.023	0.019	0.019	0.019	0.020	0.020	0.024	0.027	0.026	0.020	0.019	0.017	0.016	0.016	0.016
PV5	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.033	0.035	0.035	0.035	0.029	0.029	0.030	0.031	0.031	0.036	0.042	0.039	0.031	0.029	0.028	0.027	0.027	0.027
NFB6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.059	0.061	0.061	0.061	0.052	0.052	0.052	0.054	0.054	0.063	0.073	0.069	0.054	0.052	0.049	0.048	0.048	0.048
NFB7	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.056	0.058	0.058	0.058	0.051	0.051	0.051	0.053	0.053	0.059	0.066	0.063	0.053	0.051	0.047	0.047	0.046	0.046
NFB8	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.209	0.216	0.216	0.216	0.187	0.187	0.190	0.195	0.195	0.220	0.243	0.233	0.195	0.187	0.172	0.172	0.172	0.172
FBSD	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.148	0.153	0.153	0.153	0.135	0.135	0.137	0.140	0.140	0.155	0.170	0.164	0.140	0.135	0.127	0.127	0.127	0.127
Total composite emission factor (g/Veh/km)		0.0370	0.0274	0.0286	0.0312	0.0284	0.0224	0.0254	0.0287	0.0591	0.0666	0.0580	0.0484	0.0505	0.0506	0.0536	0.0532	0.0601	0.0652	0.0525	0.0296	0.0278	0.0355	0.0427	0.0539
Total composite emission factor (g/Veh/mile)		0.06	0.04	0.05	0.05	0.05	0.04	0.04	0.05	0.10	0.11	0.09	0.08	0.08	0.09	0.09	0.10	0.11	0.08	0.05	0.04	0.06	0.07	0.09	0.09

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM5_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	10	7	5	4	5	11	28	106	152	165	219	217	187	179	203	200	197	193	209	187	142	38	19	9
2	LGV3	2	4	4	2	2	7	16	24	48	52	65	62	58	55	63	62	61	63	64	58	58	18	6	3
3	LGV4	1	1	1	3	2	7	10	14	32	34	54	52	48	46	53	52	52	53	52	48	48	11	5	2
4	PLB	5	3	2	2	2	2	3	6	10	10	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	7	10	14	32	34	49	47	44	42	48	47	47	48	47	44	45	14	4	2
6	HGV7	0	0	0	0	0	0	2	17	202	251	177	164	157	137	158	170	167	150	137	14	11	3	0	0
7	HGV8	0	0	0	0	0	0	4	28	156	179	80	70	80	73	94	90	64	64	99	31	23	8	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	6	6	5	4	4	4
10	TAXI	5	4	5	3	4	6	14	60	82	89	88	94	84	79	88	88	87	88	90	84	70	29	10	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	5	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
Total Flow (veh)		40	25	23	21	21	44	97	286	741	845	832	801	744	693	803	804	768	798	552	468	186	104	71	

PM2.5 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.002	0.002	0.002	0.002
LGV3	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.021	0.021	0.021	0.022	0.018	0.018	0.018	0.018	0.017	0.022	0.022	0.022	0.021	0.021	0.016	0.015	0.015	0.015
LGV4	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.024	0.024	0.024	0.025	0.020	0.020	0.020	0.021	0.020	0.025	0.025	0.025	0.024	0.024	0.018	0.017	0.017	0.017
PLB	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.027	0.027	0.027	0.028	0.024	0.024	0.024	0.024	0.023	0.028	0.028	0.028	0.027	0.027	0.022	0.022	0.022	0.022
LGV6	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.050	0.050	0.050	0.051	0.046	0.046	0.046	0.046	0.046	0.051	0.051	0.051	0.050	0.050	0.044	0.044	0.044	0.044
HGV7	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.049	0.050	0.050	0.052	0.044	0.044	0.044	0.044	0.042	0.052	0.052	0.052	0.050	0.039	0.039	0.038	0.038	0.038
HGV8	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.126	0.128	0.128	0.131	0.112	0.112	0.112	0.113	0.108	0.131	0.131	0.131	0.128	0.128	0.100	0.099	0.099	0.099
FBDD	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.147	0.150	0.150	0.153	0.132	0.132	0.132	0.133	0.128	0.153	0.153	0.153	0.150	0.150	0.120	0.119	0.119	0.119
MC	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.007	0.008	0.008	0.008	0.006	0.006	0.006	0.006	0.006	0.008	0.008	0.008	0.008	0.008	0.005	0.005	0.005	0.005
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.023	0.024	0.024	0.024	0.020	0.020	0.020	0.020	0.019	0.024	0.024	0.024	0.024	0.024	0.017	0.016	0.016	0.016
PV5	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.035	0.036	0.036	0.037	0.030	0.030	0.030	0.031	0.029	0.037	0.037	0.037	0.037	0.036	0.036	0.028	0.027	0.027
NFB6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.061	0.063	0.063	0.065	0.053	0.053	0.053	0.054	0.052	0.065	0.065	0.065	0.065	0.063	0.049	0.048	0.048	0.048
NFB7	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.058	0.059	0.059	0.061	0.052	0.052	0.052	0.053	0.051	0.061	0.061	0.061	0.061	0.059	0.047	0.047	0.047	0.047
NFB8	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.216	0.220	0.220	0.224	0.192	0.192	0.192	0.195	0.187	0.224	0.224	0.224	0.220	0.220	0.172	0.172	0.172	0.172
FBSD	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.153	0.155	0.155	0.158	0.138	0.138	0.138	0.140	0.135	0.158	0.158	0.158	0.155	0.155	0.127	0.127	0.127	0.127
Total composite emission factor (g/Veh/km)		0.0421	0.0284	0.0298	0.0312	0.0284	0.0224	0.0256	0.0288	0.0507	0.0518	0.0428	0.0350	0.0372	0.0368	0.0387	0.0368	0.0418	0.0418	0.0449	0.0333	0.0332	0.0376	0.0484	0.0623
Total composite emission factor (g/Veh/mile)		0.07	0.05	0.05	0.05	0.05	0.04	0.04	0.05	0.08	0.08	0.08	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.05	0.05	0.06	0.08	0.10

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM7, Siu Lang Shui Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	0	0	0	0	0	0	1	4	8	10	7	5	5	7	5	7	7	7	5	1	0	0	0	
2	LGV3	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	8	15	18	11	9	9	9	11	9	9	11	11	2	0	0	0	
7	HGV8	0	0	0	0	0	0	0	6	13	14	8	7	7	8	7	8	7	8	8	4	2	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	1	3	6	8	4	2	2	2	4	2	2	4	4	2	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		0	0	0	0	0	0	2	21	47	55	31	24	24	24	31	24	24	31	31	14	3	0	0	0

PM2.5 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
LGV3	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	
LGV4	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	
PLB	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	
LGV6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	
HGV7	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	
HGV8	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	
FBDD	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	
MC	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	
PV5	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	
NFB6	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	
NFB7	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	
NFB8	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	0.202	
FBSD	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	0.144	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0015	0.0514	0.0504	0.0478	0.0477	0.0527	0.0527	0.0527	0.0477	0.0527	0.0527	0.0477	0.0477	0.0424	0.0790	0.0000	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.13	0.00	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM8_Unnamed Road to Cemetery
 Year: 2019

Vehicle Classes	Description	Hour																									
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00		
1	PC	0	0	0	0	0	0	0	0	2	3	2	1	1	1	2	0	1	1	2	1	0	1	0	0		
2	LGV3	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	1	1	1	1	0	0	0	0			
3	LGV4	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0			
4	PLB	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0			
5	LGV6	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0			
6	HGV7	0	0	0	0	0	0	0	1	3	3	2	2	2	2	2	2	2	2	2	0	0	0	0			
7	HGV8	0	0	0	0	0	0	0	1	2	2	0	1	0	0	1	0	0	0	0	0	0	0	0			
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	0	1	0	0	0			
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Total Flow (veh)		0	0	0	0	0	0	0	2	11	12	5	5	4	5	5	4	5	4	5	4	5	3	0	1	0	0

PM2.5 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
LGV4	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
PLB	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
LGV6	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
HGV7	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
HGV8	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110
FBDD	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130	0.130
MC	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
PV5	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
NFB6	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052
NFB7	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051
NFB8	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190	0.190
FBSD	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0764	0.0398	0.0391	0.0218	0.0397	0.0266	0.0212	0.0218	0.0489	0.0212	0.0266	0.0218	0.0068	0.0000	0.0027	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.06	0.06	0.04	0.06	0.04	0.03	0.04	0.08	0.03	0.04	0.04	0.01	0.00	0.00	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM9, Siu Lang Shui Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	0	0	0	0	0	0	1	4	10	13	9	6	6	9	5	8	9	6	1	1	0	0		
2	LGV3	0	0	0	0	0	0	0	2	1	2	1	2	2	1	2	2	2	2	0	0	0	0		
3	LGV4	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
4	PLB	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0		
5	LGV6	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
6	HGV7	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	11	13	13	2	0	0	0		
7	HGV8	0	0	0	0	0	0	7	15	16	8	8	7	7	8	8	5	8	8	4	2	0	0		
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	0	0	0	0	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	0	0	0		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total Flow (veh)		0	0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	0	

PM2.5 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																							
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
LGV3	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	
LGV4	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	
PLB	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	
LGV6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	
HGV7	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	
HGV8	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	
FBDD	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140		
MC	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	
PV5	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	
NFB6	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	
NFB7	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	
NFB8	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	
FBSD	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0016	0.0550	0.0498	0.0475	0.0452	0.0518	0.0501	0.0484	0.0452	0.0536	0.0432	0.0464	0.0452	0.0369	0.0804	0.0031	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.09	0.07	0.07	0.07	0.06	0.13	0.01	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM10_Lung Fat Street
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	0	0	0	0	0	0	1	4	10	13	9	6	6	9	5	6	8	9	6	1	1	0	0	
2	LGV3	0	0	0	0	0	0	0	2	1	2	1	2	2	1	2	2	2	2	2	0	0	0	0	
3	LGV4	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	PLB	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	HGV7	0	0	0	0	0	0	0	9	18	21	13	11	11	11	13	11	11	13	13	2	0	0	0	
7	HGV8	0	0	0	0	0	0	0	7	15	16	8	8	7	8	8	5	8	8	4	2	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	0	0	0	0	0	0	1	3	6	8	4	3	2	3	4	3	3	4	4	3	0	0	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		0	0	0	0	0	0	2	23	58	67	36	29	28	29	36	28	27	35	36	17	3	1	0	0

PM2.5 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
LGV3	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	
LGV4	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	
PLB	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	
LGV6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	
HGV7	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047	
HGV8	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.119	
FBDD	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	
MC	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	
PV5	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	
NFB6	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	0.057	
NFB7	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	
NFB8	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	0.205	
FBSD	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	0.146	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0016	0.0550	0.0498	0.0475	0.0452	0.0518	0.0501	0.0484	0.0452	0.0536	0.0432	0.0464	0.0452	0.0369	0.0804	0.0031	0.0000	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.08	0.08	0.08	0.07	0.08	0.08	0.08	0.07	0.09	0.07	0.07	0.07	0.06	0.13	0.01	0.00	0.00

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM11_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																								
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
1	PC	6	4	3	1	2	8	23	93	128	137	193	196	166	159	178	180	176	169	184	166	129	27	11	7	
2	LGV3	2	4	4	2	2	6	13	19	38	43	56	54	50	47	54	52	54	55	50	53	18	6	3		
3	LGV4	1	1	1	3	2	6	9	10	24	26	48	46	43	41	47	46	47	47	46	43	11	5	2		
4	PLB	5	3	2	2	2	2	3	6	6	6	12	11	10	10	11	11	11	11	12	10	8	8	7	6	
5	LGV6	1	1	1	3	2	6	9	10	25	26	43	41	39	37	42	41	42	42	41	39	40	14	4	2	
6	HGV7	0	0	0	0	0	0	2	6	177	222	159	149	142	122	140	155	152	132	119	10	10	3	0	0	
7	HGV8	0	0	0	0	0	0	4	15	103	121	47	38	50	45	62	58	40	32	67	12	11	7	2	0	
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	11	9	8	7	6	6	
9	MC	0	0	0	0	0	0	0	1	1	1	6	6	5	6	6	6	6	6	6	6	5	4	4	4	4
10	TAXI	4	3	3	2	3	5	12	52	67	72	74	81	73	67	74	75	74	74	76	72	63	23	5	1	
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2	
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2	
13	NFB6	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9	
14	NFB7	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9	
15	NFB8	3	1	1	1	1	1	2	3	5	6	16	15	14	13	15	15	15	15	16	14	11	10	9	9	
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7	
Total Flow (veh)		35	21	19	17	17	37	85	228	595	684	720	700	649	600	693	704	676	646	688	478	420	168	81	69	

PM2.5 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.002	0.002	0.002
LGV3	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.021	0.021	0.021	0.022	0.018	0.018	0.018	0.018	0.017	0.022	0.022	0.022	0.021	0.021	0.016	0.015	0.015	0.015
LGV4	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.024	0.024	0.024	0.025	0.020	0.020	0.020	0.021	0.020	0.025	0.025	0.025	0.024	0.024	0.018	0.017	0.017	0.017
PLB	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.027	0.027	0.027	0.028	0.024	0.024	0.024	0.024	0.023	0.028	0.028	0.028	0.027	0.027	0.022	0.022	0.022	0.022
LGV6	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.050	0.050	0.050	0.051	0.046	0.046	0.046	0.046	0.046	0.051	0.051	0.051	0.050	0.050	0.044	0.044	0.044	0.044
HGV7	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.049	0.050	0.050	0.052	0.044	0.044	0.044	0.044	0.042	0.052	0.052	0.052	0.050	0.039	0.039	0.038	0.038	0.038
HGV8	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.126	0.128	0.128	0.131	0.112	0.112	0.112	0.113	0.108	0.131	0.131	0.131	0.128	0.128	0.100	0.099	0.099	0.099
FBDD	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.147	0.150	0.150	0.153	0.132	0.132	0.132	0.133	0.128	0.153	0.153	0.153	0.150	0.150	0.120	0.119	0.119	0.119
MC	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.007	0.008	0.008	0.008	0.006	0.006	0.006	0.006	0.006	0.008	0.008	0.008	0.008	0.008	0.005	0.005	0.005	0.005
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.023	0.024	0.024	0.024	0.020	0.020	0.020	0.020	0.019	0.024	0.024	0.024	0.024	0.024	0.017	0.016	0.016	0.016
PV5	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.035	0.036	0.036	0.037	0.030	0.030	0.030	0.031	0.029	0.037	0.037	0.037	0.037	0.036	0.036	0.028	0.027	0.027
NFB6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.061	0.063	0.063	0.065	0.053	0.053	0.053	0.054	0.052	0.065	0.065	0.065	0.065	0.063	0.049	0.048	0.048	0.048
NFB7	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.058	0.059	0.059	0.061	0.052	0.052	0.052	0.053	0.051	0.061	0.061	0.061	0.061	0.059	0.047	0.047	0.047	0.047
NFB8	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.216	0.220	0.220	0.224	0.192	0.192	0.192	0.195	0.187	0.224	0.224	0.224	0.220	0.220	0.172	0.172	0.172	0.172
FBSD	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.153	0.155	0.155	0.158	0.138	0.138	0.138	0.140	0.135	0.158	0.158	0.158	0.155	0.155	0.127	0.127	0.127	0.127
Total composite emission factor (g/Veh/km)		0.0478	0.0335	0.0358	0.0381	0.0347	0.0244	0.0278	0.0247	0.0480	0.0495	0.0412	0.0331	0.0357	0.0353	0.0376	0.0353	0.0408	0.0398	0.0436	0.0316	0.0319	0.0409	0.0551	0.0640
Total composite emission factor (g/Veh/mile)		0.08	0.05	0.06	0.06	0.06	0.04	0.04	0.04	0.08	0.08	0.07	0.05	0.06	0.06	0.06	0.06	0.07	0.06	0.07	0.05	0.05	0.07	0.09	0.10

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM12_Unnamed Road to EcoPark
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
1	PC	4	3	2	3	3	3	4	9	14	15	17	15	15	14	16	15	17	16	16	15	12	10	8	2
2	LGV3	0	0	0	0	0	1	3	5	8	8	7	7	6	6	7	7	7	7	7	6	5	0	0	0
3	LGV4	0	0	0	0	0	1	1	4	6	6	6	6	5	5	6	6	5	6	6	5	5	0	0	0
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	LGV6	0	0	0	0	0	1	1	4	6	6	6	6	5	5	6	6	5	6	6	5	5	0	0	0
6	HGV7	0	0	0	0	0	0	0	2	7	8	5	4	4	4	5	4	4	5	5	5	2	1	0	0
7	HGV8	0	0	0	0	0	0	0	6	38	42	25	24	23	21	24	24	19	24	24	15	10	1	0	0
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	TAXI	1	1	2	1	1	1	1	5	9	9	10	10	9	9	10	10	10	10	10	9	7	6	5	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Flow (veh)		5	4	4	4	4	7	10	35	88	94	76	72	67	64	74	72	65	74	74	57	45	17	13	2

PM2.5 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	
PC	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	
LGV3	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	
LGV4	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	
PLB	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	
LGV6	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	
HGV7	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	
HGV8	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	
FBDD	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	0.159	
MC	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	
PV5	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	0.039	
NFB6	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	0.069	
NFB7	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	
NFB8	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	0.233	
FBSD	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	0.164	
Total composite emission factor (g/Veh/km)		0.0032	0.0030	0.0020	0.0030	0.0030	0.0161	0.0163	0.0397	0.0713	0.0732	0.0576	0.0581	0.0589	0.0573	0.0573	0.0581	0.0526	0.0573	0.0573	0.0481	0.0438	0.0104	0.0025	0.0040
Total composite emission factor (g/Veh/mile)		0.01	0.00	0.00	0.00	0.00	0.03	0.03	0.06	0.11	0.12	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.09	0.09	0.08	0.07	0.02	0.00	0.01

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM13 Lung Yiu Street
 Year: 2019

Vehicle Classes	Description	Hour																								
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
1	PC	4	2	1	1	0	3	10	20	32	34	26	23	22	22	24	23	23	24	24	22	13	4	6	1	
2	LGV3	1	1	0	1	0	1	5	12	18	19	12	11	10	9	11	11	11	11	12	10	3	3	2	0	
3	LGV4	0	0	0	0	0	0	4	6	14	15	10	9	8	7	9	9	9	10	8	5	2	1	2		
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	4	6	14	15	9	8	7	6	8	8	8	8	9	7	3	2	1	1	
6	HGV7	0	0	0	0	0	0	1	4	28	32	21	17	19	18	21	20	20	20	19	3	3	1	0	0	
7	HGV8	0	0	0	0	0	0	2	4	38	42	21	17	19	18	21	20	20	19	3	3	1	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0
10	TAXI	2	1	1	0	0	0	5	12	19	21	12	11	10	10	11	11	11	11	12	10	4	3	2	0	
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	NFB6	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	
14	NFB7	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	
15	NFB8	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Flow (veh)		7	4	2	2	0	4	31	70	169	184	118	103	102	97	112	109	110	112	110	64	35	16	13	4	

PM2.5 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	
LGV3	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.023	0.023	0.023	0.022	0.022	0.022	0.022	0.021	
LGV4	0.023	0.023	0.023	0.023	0.023	0.023	0.024	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.023	
PLB	0.026	0.026	0.026	0.026	0.026	0.026	0.027	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.026	
LGV6	0.049	0.049	0.049	0.049	0.049	0.049	0.050	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.052	0.052	0.052	0.051	0.051	0.051	0.051	0.049	
HGV7	0.048	0.048	0.048	0.048	0.048	0.048	0.050	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.053	0.053	0.053	0.052	0.052	0.052	0.052	0.048	
HGV8	0.123	0.123	0.123	0.123	0.123	0.123	0.128	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.134	0.134	0.134	0.131	0.131	0.131	0.131	0.123	
FBDD	0.144	0.144	0.144	0.144	0.144	0.144	0.150	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.153	0.156	0.156	0.156	0.153	0.153	0.153	0.153	0.153	0.144	
MC	0.007	0.007	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.007	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.022	0.022	0.022	0.022	0.022	0.022	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.025	0.025	0.025	0.024	0.024	0.024	0.024	0.024	0.022	
PV5	0.034	0.034	0.034	0.034	0.034	0.034	0.036	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.038	0.038	0.038	0.037	0.037	0.037	0.037	0.037	0.034	
NFB6	0.060	0.060	0.060	0.060	0.060	0.060	0.063	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.060	
NFB7	0.057	0.057	0.057	0.057	0.057	0.057	0.059	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.057	
NFB8	0.212	0.212	0.212	0.212	0.212	0.212	0.220	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.224	0.229	0.229	0.229	0.224	0.224	0.224	0.224	0.212	
FBSD	0.151	0.151	0.151	0.151	0.151	0.151	0.155	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.158	0.161	0.161	0.161	0.158	0.158	0.158	0.158	0.158	0.151	
Total composite emission factor (g/Veh/km)		0.0049	0.0068	0.0017	0.0120	0.0000	0.0077	0.0241	0.0317	0.0514	0.0517	0.0474	0.0462	0.0492	0.0489	0.0490	0.0487	0.0498	0.0493	0.0477	0.0220	0.0270	0.0259	0.0115	0.0246
Total composite emission factor (g/Veh/mile)		0.01	0.01	0.00	0.02	0.00	0.01	0.04	0.05	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.04	0.04	0.04	0.02	0.04

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM14_Lung Mun Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	2	2	2	0	2	5	13	73	96	103	167	173	144	137	154	157	153	145	160	144	116	23	5	6
2	LGV3	1	3	4	1	2	5	8	7	20	24	44	43	40	38	43	41	43	43	40	50	15	4	3	
3	LGV4	1	1	1	3	2	6	5	4	10	11	38	37	35	34	38	37	38	38	36	35	38	9	4	0
4	PLB	5	3	2	2	2	2	3	6	6	6	12	11	10	10	11	11	11	11	12	10	8	8	7	6
5	LGV6	1	1	1	3	2	6	5	4	11	11	34	33	32	31	34	33	34	32	32	37	12	3	1	
6	HGV7	0	0	0	0	0	0	1	2	149	190	138	132	123	104	119	135	132	112	100	7	7	2	0	0
7	HGV8	0	0	0	0	0	0	2	11	65	79	26	21	31	27	41	38	20	12	48	9	8	6	2	0
8	FBDD	2	1	1	0	0	0	2	2	4	4	11	11	9	9	11	11	11	11	9	8	7	6	6	6
9	MC	0	0	0	0	0	0	0	1	1	1	5	5	4	5	5	5	5	5	5	4	4	4	3	4
10	TAXI	2	2	2	2	3	5	7	40	48	51	62	70	63	57	63	64	63	63	64	62	59	20	3	1
11	PV4	1	0	0	0	0	0	0	1	1	1	5	5	4	5	5	5	4	5	5	4	4	4	3	2
12	PV5	1	0	0	0	0	0	0	1	1	1	5	5	4	4	5	5	4	5	5	4	4	4	3	2
13	NFB6	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	9
14	NFB7	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	9
15	NFB8	3	1	1	1	1	1	2	1	3	4	14	13	12	11	13	13	13	13	14	14	11	10	9	9
16	FBSD	3	1	1	1	1	1	2	3	5	6	13	12	11	11	13	12	12	13	13	11	9	8	8	7
Total Flow (veh)		28	17	17	15	17	33	54	158	426	500	602	597	547	503	581	595	567	536	576	414	385	152	78	65

PM2.5 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.002	0.002	0.002	0.002
LGV3	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.021	0.021	0.021	0.022	0.018	0.018	0.018	0.018	0.017	0.022	0.022	0.022	0.021	0.021	0.016	0.015	0.015	0.015
LGV4	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.024	0.024	0.024	0.025	0.020	0.020	0.020	0.021	0.020	0.025	0.025	0.025	0.024	0.024	0.018	0.017	0.017	0.017
PLB	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.027	0.027	0.027	0.028	0.024	0.024	0.024	0.024	0.023	0.028	0.028	0.028	0.027	0.027	0.022	0.022	0.022	0.022
LGV6	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.050	0.050	0.050	0.051	0.046	0.046	0.046	0.046	0.051	0.051	0.051	0.050	0.050	0.044	0.044	0.044	0.044	0.044
HGV7	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.049	0.050	0.052	0.044	0.044	0.044	0.044	0.042	0.052	0.052	0.052	0.050	0.039	0.039	0.038	0.038	0.038
HGV8	0.099	0.099	0.099	0.099	0.099	0.099	0.099	0.126	0.128	0.128	0.131	0.112	0.112	0.112	0.113	0.108	0.131	0.131	0.131	0.128	0.128	0.100	0.099	0.099	0.099
FBDD	0.119	0.119	0.119	0.119	0.119	0.119	0.119	0.147	0.150	0.150	0.153	0.132	0.132	0.132	0.133	0.128	0.153	0.153	0.153	0.150	0.150	0.120	0.119	0.119	0.119
MC	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.007	0.008	0.008	0.008	0.006	0.006	0.006	0.006	0.006	0.008	0.008	0.008	0.008	0.008	0.005	0.005	0.005	0.005
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.023	0.024	0.024	0.024	0.020	0.020	0.020	0.020	0.019	0.024	0.024	0.024	0.024	0.024	0.017	0.016	0.016	0.016
PV5	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.035	0.036	0.036	0.037	0.030	0.030	0.030	0.031	0.029	0.037	0.037	0.037	0.036	0.036	0.028	0.027	0.027	0.027
NFB6	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.061	0.063	0.063	0.065	0.053	0.053	0.053	0.054	0.052	0.065	0.065	0.065	0.065	0.063	0.049	0.048	0.048	0.048
NFB7	0.046	0.046	0.046	0.046	0.046	0.046	0.047	0.058	0.059	0.059	0.061	0.052	0.052	0.052	0.053	0.051	0.061	0.061	0.061	0.061	0.059	0.047	0.047	0.047	0.047
NFB8	0.172	0.172	0.172	0.172	0.172	0.172	0.172	0.216	0.220	0.220	0.224	0.192	0.192	0.192	0.195	0.187	0.224	0.224	0.224	0.220	0.220	0.172	0.172	0.172	0.172
FBSD	0.127	0.127	0.127	0.127	0.127	0.127	0.127	0.153	0.155	0.155	0.158	0.138	0.138	0.138	0.140	0.135	0.158	0.158	0.158	0.155	0.155	0.127	0.127	0.127	0.127
Total composite emission factor (g/Veh/km)		0.0589	0.0403	0.0399	0.0421	0.0347	0.0267	0.0331	0.0221	0.0470	0.0491	0.0400	0.0321	0.0345	0.0341	0.0366	0.0345	0.0392	0.0381	0.0430	0.0332	0.0324	0.0431	0.0629	0.0668
Total composite emission factor (g/Veh/mile)		0.10	0.07	0.06	0.07	0.06	0.04	0.05	0.04	0.08	0.08	0.06	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.05	0.05	0.07	0.10	0.11

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM15_Lung Yiu Street
 Year: 2019

Vehicle Classes	Description	Hour																								
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
1	PC	3	1	1	1	0	2	7	14	22	23	11	9	9	9	9	9	9	9	9	9	5	1	4	1	
2	LGV3	1	1	0	1	0	1	3	9	13	13	4	4	3	3	4	4	3	4	4	0	1	2	0		
3	LGV4	0	0	0	0	0	0	2	2	9	10	3	4	3	2	3	4	4	3	4	3	1	1	1	2	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	2	2	9	10	2	3	2	1	2	3	3	2	3	2	0	1	1	1	
6	HGV7	0	0	0	0	0	0	1	2	18	21	16	12	15	14	17	15	15	16	14	1	2	0	0	0	
7	HGV8	0	0	0	0	0	0	1	2	24	27	16	12	15	14	17	15	16	14	1	2	0	0	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0
10	TAXI	1	0	1	0	0	0	3	9	13	15	2	2	1	2	1	2	2	1	2	1	1	1	1	0	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	2	2	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
Total Flow (veh)		5	2	2	2	0	3	19	46	114	125	58	50	53	49	56	56	56	54	54	22	12	5	10	4	

PM2.5 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
LGV3	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
LGV4	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
PLB	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
LGV6	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045	0.045
HGV7	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042
HGV8	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107
FBDD	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.126
MC	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PV4	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
PV5	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029
NFB6	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051
NFB7	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
NFB8	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184	0.184
FBSD	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134
Total composite emission factor (g/Veh/km)		0.0050	0.0098	0.0013	0.0098	0.0000	0.0074	0.0182	0.0258	0.0415	0.0420	0.0501	0.0475	0.0520	0.0515	0.0542	0.0503	0.0503	0.0534	0.0494	0.0179	0.0279	0.0168	0.0115	0.0216
Total composite emission factor (g/Veh/mile)		0.01	0.02	0.00	0.02	0.00	0.01	0.03	0.04	0.07	0.07	0.08	0.08	0.08	0.09	0.08	0.08	0.09	0.08	0.08	0.03	0.04	0.03	0.02	0.03

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: TM16_Lung Hong Street
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00
1	PC	1	1	0	0	0	1	3	6	10	11	15	14	13	15	14	17	15	15	13	8	3	2	0	
2	LGV3	0	0	0	0	0	0	2	3	5	6	8	7	6	8	7	7	8	8	6	3	2	0	0	
3	LGV4	0	0	0	0	0	0	2	4	5	5	7	5	5	6	5	5	6	6	5	4	1	0	0	
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	LGV6	0	0	0	0	0	0	2	4	5	5	7	5	5	6	5	5	6	6	5	3	1	0	0	
6	HGV7	0	0	0	0	0	0	2	10	11	5	5	4	4	4	5	5	4	5	2	1	1	0	0	
7	HGV8	0	0	0	0	0	0	1	2	14	15	5	5	4	4	5	5	4	5	2	1	1	0	0	
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	TAXI	1	1	0	0	0	0	2	3	6	6	10	9	9	8	10	9	9	10	10	9	3	2	1	0
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	NFB6	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0
14	NFB7	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0
15	NFB8	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Flow (veh)		2	2	0	0	0	1	12	24	55	59	60	53	49	48	56	53	56	58	42	23	11	3	0	

PM2.5 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																								
	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	
PC	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
LGV3	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	
LGV4	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	
PLB	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	
LGV6	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	
HGV7	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	
HGV8	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	0.108	
FBDD	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	
MC	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	
PV5	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	
NFB6	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	
NFB7	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	
NFB8	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.187	
FBSD	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	0.135	
Total composite emission factor (g/Veh/km)		0.0013	0.0013	0.0000	0.0000	0.0000	0.0026	0.0234	0.0262	0.0432	0.0431	0.0279	0.0288	0.0276	0.0282	0.0261	0.0288	0.0288	0.0261	0.0277	0.0182	0.0190	0.0234	0.0017	0.0000
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.07	0.07	0.05	0.05	0.04	0.05	0.04	0.05	0.05	0.04	0.04	0.03	0.03	0.04	0.00	0.00	

Annex A3 - Vehicular Emission Factors, Traffic Information and Calculations of Composite Vehicular Emission Factors

District: Tuen Mun Fill Bank
 Road Section: R3_Internal Road
 Year: 2019

Vehicle Classes	Description	Hour																							
		0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
1	PC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	LGV3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
3	LGV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4	PLB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5	LGV6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
6	HGV7	0	0	0	0	0	0	0	0	21	44	40	38	36	32	40	38	42	38	13	0	0	0		
7	HGV8	0	0	0	0	0	0	0	118	246	232	214	208	186	224	220	240	210	76	0	0	0			
8	FBDD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
9	MC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10	TAXI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
11	PV4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	PV5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
13	NFB6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
14	NFB7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	NFB8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total Flow (veh)		0	0	0	0	0	0	0	0	139	290	272	252	244	218	264	258	282	248	89	0	0	0		

PM2.5 emission factor (g/Veh/km, EMFAC Veh categories)

Description	Hour																							
	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
PC	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	
LGV3	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	
LGV4	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	
PLB	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	
LGV6	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	
HGV7	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	
HGV8	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	
FBDD	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	0.302	
MC	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	
TAXI	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PV4	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	
PV5	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	
NFB6	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	0.151	
NFB7	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	
NFB8	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	0.479	
FBSD	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	0.295	
Total composite emission factor (g/Veh/km)		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2792	0.2791	0.2798	0.2792	0.2797	0.2798	0.2791	0.2797	0.2795	0.2788	0.2799	0.0000	0.0000	0.0000	
Total composite emission factor (g/Veh/mile)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.00	0.00	0.00	

Annex A3 - Configurations of Roads

No.	Road ID	Road Name	Starting Co		Width (m)	Height (m)	Model Height (m)	Ending Co		Road Type
			X-co	Y-co				X-co	Y-co	
1	TM1	TM1_Lung Mun Road	811948	825382	16	11.6	6.6	811771	825461	1
2	TM2	TM2_Unnamed Road to River Trade Terminal	811771	825461	25	6.3	1.3	811726	825328	1
3	TM3	TM3_Lung Mun Road	811771	825461	16	8.1	3.1	811376	825635	1
4	TM5	TM5_Lung Mun Road	811376	825635	13	7.4	2.4	811235	825684	1
5	TM5	TM5_Lung Mun Road	811235	825684	13	7.1	2.1	811113	825690	1
6	TM5	TM5_Lung Mun Road	811113	825690	20	6.8	1.8	810874	825651	1
7	TM7	TM7_Siu Lang Shui Road	810951	825787	13	12.4	7.4	811051	825800	1
8	TM7	TM7_Siu Lang Shui Road	811051	825800	13	14.8	9.8	811208	825774	1
9	TM7	TM7_Siu Lang Shui Road	811208	825774	13	15.0	10.0	811364	825727	1
10	TM7	TM7_Siu Lang Shui Road	811364	825727	13	16.5	10.0	811513	825627	1
11	TM8	TM8_Unnamed Road to Cemetery	810951	825787	13	9.1	4.1	810916	825860	1
12	TM8	TM8_Unnamed Road to Cemetery	810916	825860	12	17.5	10.0	810946	826041	1
13	TM8	TM8_Unnamed Road to Cemetery	810946	826041	12	23.1	10.0	810936	826119	1
14	TM9	TM9_Siu Lang Shui Road	810867	825744	15	8.5	3.5	810951	825787	1
15	TM10	TM10_Lung Fat Street	810874	825651	22	7.7	2.7	810867	825744	1
16	TM11	TM11_Lung Mun Road	810874	825651	22	6.9	1.9	810666	825675	1
17	TM12	TM12_Unnamed Road to EcoPark	810874	825651	25	6.5	1.5	810873	825555	1
18	TM12	TM12_Unnamed Road to EcoPark	810873	825555	19	6.1	1.1	810675	825270	1
19	TM13	TM13_Lung Yiu Street	810666	825675	17	7.1	2.1	810639	825642	1
20	TM13	TM13_Lung Yiu Street	810639	825642	17	10.7	5.7	810593	825678	1
21	TM14	TM14_Lung Mun Road	810666	825675	15	16.8	10.0	810566	825737	1
22	TM15	TM15_Lung Yiu Street	810593	825678	15	16.8	10.0	810562	825711	1
23	TM16	TM16_Lung Hong Street	810593	825678	16	10.7	5.7	810556	825624	1
24	R1	R1	811354	825596	14	5.0	0.0	811293	825567	1
25	R2	R2	811293	825567	14	5.0	0.0	811181	825618	1
26	R3	R3	811181	825618	14	5.0	0.0	811088	825610	1
27	R4	R4	811088	825610	8	5.0	5.0	811104	825463	3
28	R5	R5	811104	825463	14	15.0	10.0	811209	825400	1
29	R6	R6	811209	825400	14	25.0	10.0	811115	825205	1
30	R7	R7	811115	825205	14	25.0	10.0	811073	825119	1
31	R8	R8	811051	825113	14	5.0	0.0	810954	824970	1
32	R9	R9	811115	825205	14	35.0	10.0	811242	825169	1
33	R11	R11	810985	825207	8	8.5	8.5	810901	825094	3
34	R14	R14	810926	824930	14	5.0	0.0	810954	824970	1
35	R15	R15	811090	824881	14	5.0	0.0	811062	824839	1
36	R17	R17	810954	824970	14	5.0	0.0	811090	824881	1
37	R18	R18	811227	825190	14	15.0	10.0	811266	825173	1
38	R19	R19	811198	825057	14	10.0	5.0	811266	825173	1
39	R20	R20	811051	824995	14	10.0	5.0	811117	824954	1
40	R21	R21	811187	825060	14	10.0	5.0	811117	824954	1
41	R22	R22	811198	825057	14	5.0	0.0	811080	824887	1
42	R25	R25	811179	824924	14	5.0	0.0	811208	824981	1
43	R26	R26	811208	824981	14	5.0	0.0	811242	824964	1
44	R27	R27	811242	824964	14	5.0	0.0	811353	825233	1
45	R28	R28	811353	825233	14	5.0	0.0	811489	825560	1

Note:

(a) The lowest road elevation is 5m. All road heights were subtracted by 5m for input in the model such that the lowest road elevation is 0m. For road heights that were greater than 10m, they were inputted as 10m due to model limitation as a conservative assessment. The elevations of ASRs were subtracted by 5m as well for input in the model to ensure consistency.

(b) A 5m vertical barrier is proposed to be erected along the west side of R4 and R11. In order to model the effect of the presence of the physical barrier, the road height of R4 and R11 was increased by 5m assuming the emissions would be at the top of the barrier and that the road type is set to "fill". 6m mixing distance not included.

Annex A4

Calculations of Land Use Parameters

Annex A4 - Detailed Calculations of Albedo, Bowen Ratio and Surface Roughness

Land Cover	Area (km ²)	Fraction of Total Area	Bowen Ratio (Bo)	Albedo (r)
Tree	21.1	0.21	0.67	0.12
Urban	10.7	0.11	1.67	0.16
Water	67.9	0.68	0.1	0.12
Fill Bank	0.3	0.003	1.5	0.20
Average:			0.20	0.12

Notes:

(a) Bowen ratio was calculated based on the area-weighted geometric mean within 10km x 10km area from the Project Site. Considering the climate in Hong Kong covers dry and wet season throughout the year, bowen ratios for average moisture conditions have been adopted. With reference to Table 4-4 of the User's Guide for the AERMOD Meteorological Preprocessor (AERMET) (AERMET User Guide), the bowen ratio for tree (deciduous forest), urban and water areas were assumed to be 0.67, 1.67 and 0.1, respectively. Fill bank area is regarded as Class 32-Quarries/Strip Mines/Gravel and its bowen ratio was assumed to be 1.5 with reference to Table A-2 of the AERSURFACE User's Guide.

(b) Albedo was calculated based on the area-weighted arithmetic mean within 10km x 10km area from the Project Site. With reference to Table 4-2 of the AERMET User Guide, the albedo for tree (deciduous forest), urban and water areas were assumed to be 0.12, 0.16 and 0.12, respectively. Fill bank area is regarded as Class 32-Quarries/Strip Mines/Gravel and its albedo was assumed to be 0.2 with reference to Table A-1 of the AERSURFACE User's Guide.

(c) The average of the albedo and bowen ratio values in spring, summer and autumn for each land use was used.

Annex A4 - Detailed Calculations of Albedo, Bowen Ratio and Surface Roughness

PATH Grid 15_38

Sector (degree)	Land Cover	Area (km2)	Fraction of Total Area	Distance (km)	Weighting	Zo (m)	Resultant Zo (m) for each sector
65 - 135	Fill Bank	0.24	0.39	0.46	0.84	0.3	0.52
	Urban	0.37	0.61	0.86	0.72	1	
135 - 300	Urban	0.10	0.07	0.07	1.10	1	0.004
	Water	1.34	0.93	0.59	1.57	0.0001	
300 - 340	Urban	0.35				1	1.00
340 - 65	Urban	0.19	0.26	0.20	1.30	1	0.80
	Tree	0.55	0.74	0.72	1.03	0.6	

PATH Grid 15_39

Sector (degree)	Land Cover	Area (km2)	Fraction of Total Area	Distance (km)	Weighting	Zo (m)	Resultant Zo (m) for each sector
80 - 155	Fill Bank	0.19	0.29	0.39	0.74	0.3	0.57
	Urban	0.46	0.71	0.86	0.83	1	
155 - 280	Urban	0.38	0.35	0.20	1.76	1	0.04
	Water	0.71	0.65	0.66	0.99	0.0001	
280 - 325	Urban	0.39				1	1.00
325 - 80	Tree	1.00				0.6	0.60

PATH Grid 16_39

Sector (degree)	Land Cover	Area (km2)	Fraction of Total Area	Distance (km)	Weighting	Zo (m)	Resultant Zo (m) for each sector
115 - 190	Urban	0.65				1	1.00
190 - 230	Fill Bank	0.35				0.3	0.30
230 - 285	Urban	0.48				1	1.00
285 - 115	Tree	1.66				0.6	0.60



Annex A4 - Detailed Calculations of Albedo, Bowen Ratio and Surface Roughness

PATH Grid	Sector	Land Use Type	Albedo (r)	Bowen Ratio (Bo)	Surface Roughness (Zo)	Remark
15_38	65 - 135	Fill Bank / Urban	0.12	0.20	0.52	This sector is comprised of both fill bank and urban areas. Fill bank area covers 39% and the distance from the centre of ASRs of the PATH grid is about 0.46km. Urban area covers 61% and the distance from the centre of ASRs of the PATH grid is about 0.86km.
	135 - 300	Urban / Water	0.12	0.20	0.004	This sector is comprised of both urban and water areas. Urban area covers 7% and the distance from the centre of ASRs of the PATH grid is about 0.07km. Water area covers 93% and the distance from the centre of ASRs of the PATH grid is about 0.59km.
	300 - 340	Urban	0.12	0.20	1.00	This sector is comprised of urban area.
	340 - 65	Urban / Tree	0.12	0.20	0.80	This sector is comprised of both urban and tree areas. Urban area covers 26% and the distance from the centre of ASRs of the PATH grid is about 0.20km. Tree area covers 74% and the distance from the centre of ASRs of the PATH grid is about 0.72km.
15_39	80 - 155	Fill Bank / Urban	0.12	0.20	0.57	This sector is comprised of both fill bank and urban areas. Fill bank area covers 29% and the distance from the centre of ASRs of the PATH grid is about 0.39km. Urban area covers 71% and the distance from the centre of ASRs of the PATH grid is about 0.86km.
	155 - 280	Urban / Water	0.12	0.20	0.04	This sector is comprised of both urban and water areas. Urban area covers 35% and the distance from the centre of ASRs of the PATH grid is about 0.20km. Water area covers 65% and the distance from the centre of ASRs of the PATH grid is about 0.66km.
	280 - 325	Urban	0.12	0.20	1.00	This sector is comprised of urban area.
	325 - 80	Tree	0.12	0.20	0.60	This sector is comprised of tree area.
16_39	115 - 190	Urban	0.12	0.20	1.00	This sector is comprised of urban area.
	190 - 230	Fill Bank	0.12	0.20	0.30	This sector is comprised of fill bank area.
	230 - 285	Urban	0.12	0.20	1.00	This sector is comprised of urban area.
	285 - 115	Tree	0.12	0.20	0.60	This sector is comprised of tree area.

Note:

(a) With reference to Table 4-6 of the AERMET User's Guide, the surface roughness value for urban area and water area is assumed to be 1m and 0.0001m, respectively. With reference to Table A-3 of the AERSURFACE User's Guide, the surface roughness value for fill bank area is assumed to be 0.3m. The height of trees within 1 km from the identified ASRs near TKOFB is about 6m on average. The surface roughness can be estimated as about 10% of the average height of physical structures. Therefore, the surface roughness of 0.6m has been adopted for trees. For sector consisting of 2 or more different land use types, the surface roughness length for the sector is calculated based on the inverse-distance weighted geometric mean.

Legend

-  TMFB
-  10km x 10km area from TMFB Site Boundary

Landuse

-  Fill bank
-  Tree
-  Urban
-  Water



Kilometres



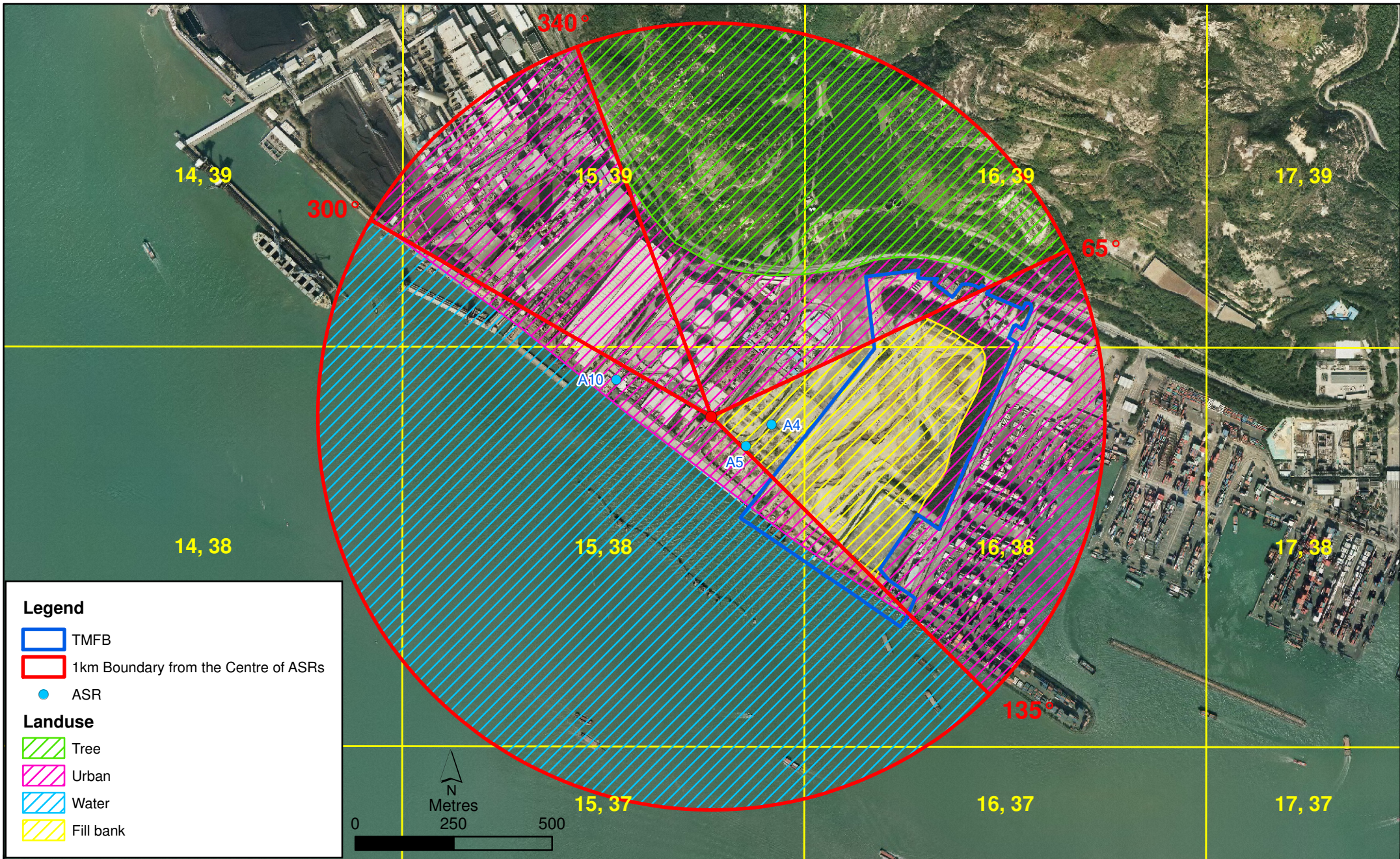
Annex A4

10km x 10km Area from TMFB Site Boundary

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Date: 16/7/2018

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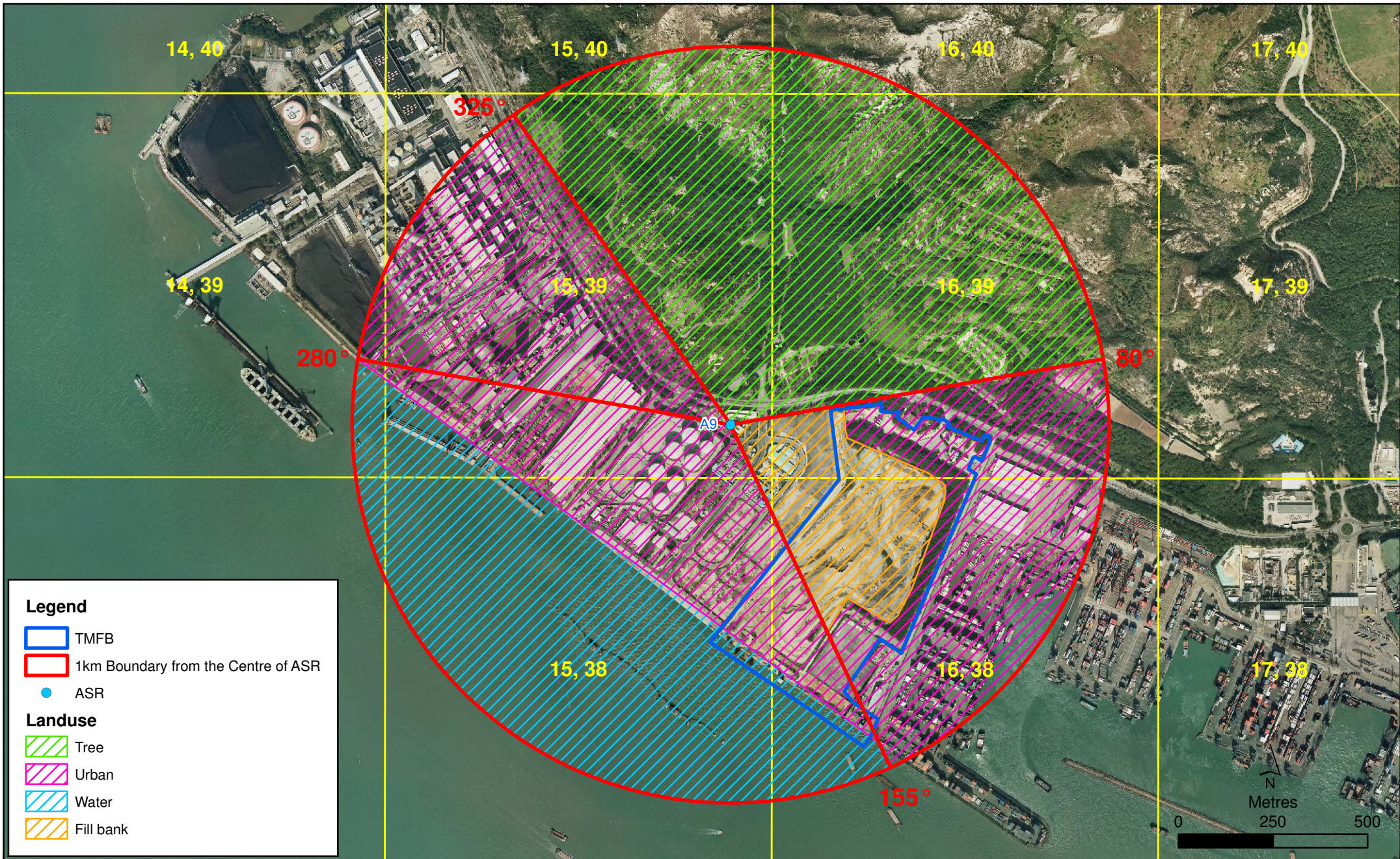
Annex A4

Sectors of Land Use for PATH Grid 15,38

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Date: 17/7/2018

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Legend

- TMFB
- 1km Boundary from the Centre of ASR
- ASR

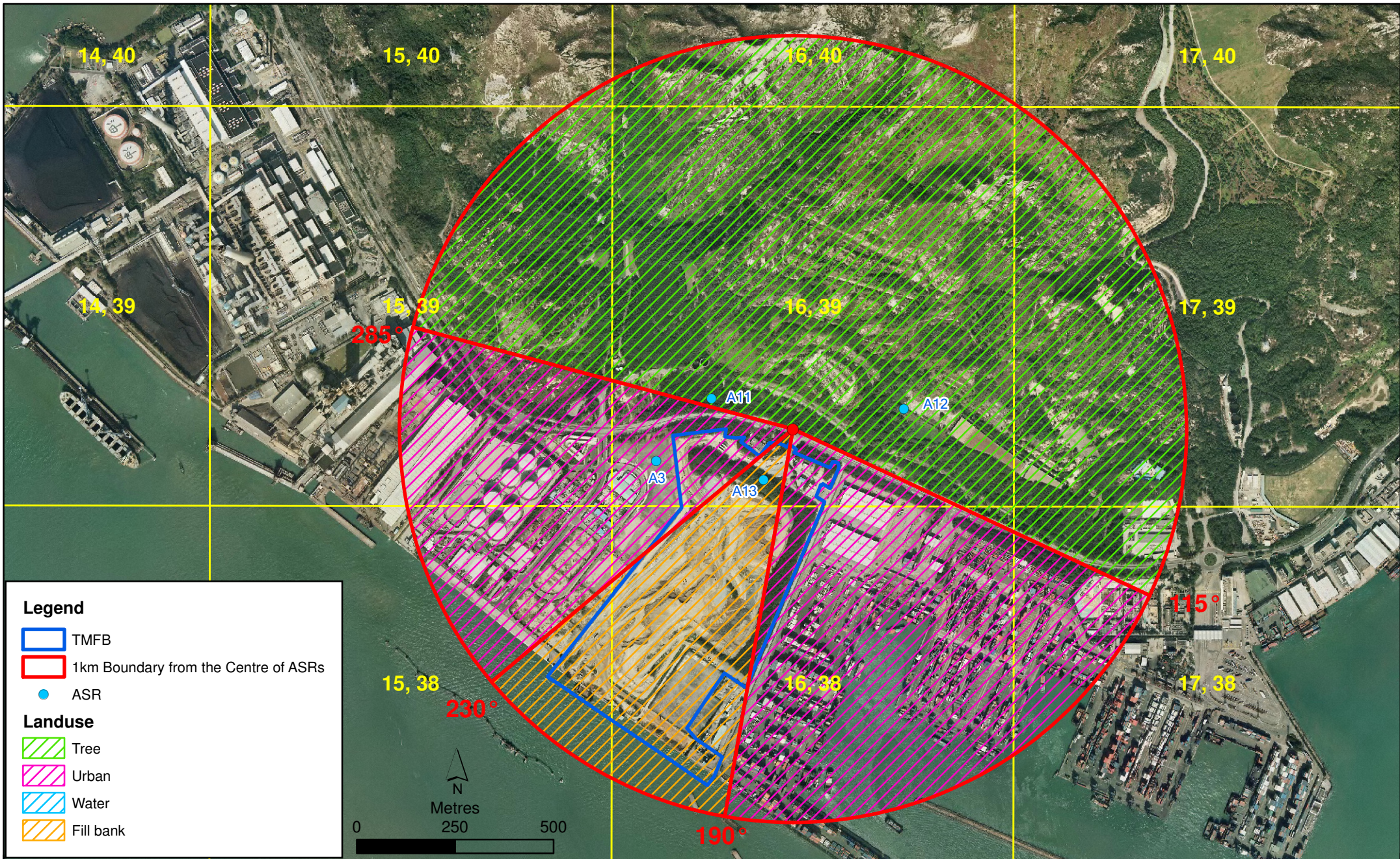
Landuse

- Tree
- Urban
- Water
- Fill bank

Annex A4

Sectors of Land Use for PATH Grid 15,39

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Date: 17/7/2018



Legend

- TMFB
- 1km Boundary from the Centre of ASRs
- ASR

Landuse

- Tree
- Urban
- Water
- Fill bank

Annex A4

Sectors of Land Use for PATH Grid 16,39

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Date: 20/7/2018

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Annex A5

Predicted Cumulative Pollutant Concentrations at ASRs

Annex A5 - Predicted Cumulative Pollutant Concentrations at ASRs

ASR	ASR Description	x	y	TSP				RSP								FSP							
				Cumulative Maximum Hourly Averaged TSP (μgm^{-3})				Cumulative 10th Highest Daily Averaged RSP (μgm^{-3})				Cumulative Annual Averaged RSP (μgm^{-3})				Cumulative 10th Highest Daily Averaged FSP (μgm^{-3})				Cumulative Annual Averaged FSP (μgm^{-3})			
				Receptor height (m above ground)				Receptor height (m above ground)				Receptor height (m above ground)				Receptor height (m above ground)				Receptor height (m above ground)			
				1.5	4.5	7.5	10	1.5	4.5	7.5	10	1.5	4.5	7.5	10	1.5	4.5	7.5	10	1.5	4.5	7.5	10
A3	Eco Park Tenant: WEEE	811013	825570	348.97	368.05			86.72	86.68			38.44	38.35			65.23	65.18			26.85	26.79		
A4	Eco Park Tenant: South China	810816	825258	364.53	329.18			92.21	92.20			42.43	42.90			68.23	68.21			29.32	29.28		
A5	Eco Park Tenant: Chung Yue	810751	825204	455.50	419.94			92.26	93.06			42.34	42.83			67.21	67.13			28.78	28.77		
A9	Eco Park Administration Building	810791	825596	202.28	202.25			84.67	84.61			37.62	37.53			63.21	63.28			26.59	26.56		
A10	PAFF Office	810422	825373	203.58	203.53			90.16	90.15			40.43	40.40			67.34	67.31			28.95	28.93		
A11	Proposed Modern Logistics Development at TM Area 49 (Indicative Location)	811154	825728	314.38	262.22	211.65	204.69	86.00	85.83	85.71	85.63	37.30	37.21	37.13	37.06	64.61	64.57	64.50	64.45	26.38	26.32	26.26	26.22
AQO Criterion				500	500	500	500	100	100	100	100	50	50	50	50	75	75	75	75	35	35	35	35

Annex A5 - Predicted Cumulative Pollutant Concentrations at ASRs

				NO ₂							
				Cumulative 19th Highest Hourly Averaged NO ₂ (µgm ⁻³)				Cumulative Annual Averaged NO ₂ (µgm ⁻³)			
				Receptor height (m above ground)				Receptor height (m above ground)			
ASR	ASR Description	x	y	1.5	4.5	7.5	10	1.5	4.5	7.5	10
A3	Eco Park Tenant: WEEE	811013	825570	150.53	150.37			38.03	37.72		
A4	Eco Park Tenant: South China	810816	825258	146.54	146.28			39.19	38.94		
A5	Eco Park Tenant: Chung Yue	810751	825204	147.35	146.98			39.24	38.98		
A9	Eco Park Administration Building	810791	825596	139.36	139.27			37.01	36.54		
A10	PAFF Office	810422	825373	137.60	137.00			37.44	37.24		
A11	Proposed Modern Logistics Development at TM Area 49 (Indicative Location)	811154	825728	153.28	151.42	148.74	145.99	38.75	37.68	36.63	35.86
AQO Criterion				200	200	200	200	40	40	40	40

Annex A5 - Predicted Cumulative Pollutant Concentrations at ASRs

				SO ₂							
				Cumulative 4th Highest 10-minute Averaged SO ₂ (µgm ⁻³)				Cumulative 4th Highest Daily Averaged SO ₂ (µgm ⁻³)			
				Receptor height (m above ground)				Receptor height (m above ground)			
ASR	ASR Description	x	y	1.5	4.5	7.5	10	1.5	4.5	7.5	10
A3	Eco Park Tenant: WEEE	811013	825570	200.03	199.70			37.02	37.02		
A4	Eco Park Tenant: South China	810816	825258	228.21	227.65			42.47	42.53		
A5	Eco Park Tenant: Chung Yue	810751	825204	246.82	247.82			42.10	42.15		
A9	Eco Park Administration Building	810791	825596	207.08	207.15			37.71	37.70		
A10	PAFF Office	810422	825373	208.40	208.34			40.52	40.51		
A11	Proposed Modern Logistics Development at TM Area 49 (Indicative Location)	811154	825728	186.91	186.72	186.58	186.50	37.00	37.00	37.00	37.00
AQO Criterion				500	500	500	500	125	125	125	125

Annex A6

Letter from Transport Department

By Fax
(Fax No.: 3020 0321)



本署檔案 Our Ref. : (N8NR3) in TD NR182/203-28
來函檔號 Your Ref. : 30717-0005
電話 Tel. : 2399 2261
圖文傳真 Fax : 2381 3799
電 郵 Email :

20 July 2018

AXON Consultancy Limited
Unit 503, 5/F, Tower 2,
Lippo Centre, Admiralty, Hong Kong
(Attn.: Mr. Sam FUNG)

Dear Mr. FUNG,

**Agreement No. FM 01/2017 Environmental Review and Traffic Impact Assessment for
Extension of Operation of Fill Banks at Tseung Kwan O Area 137
and Tuen Mun Area 38 – Investigation**

Traffic Forecast in Years 2019 and 2023 for the Air Quality Impact Assessment

I refer to your letter under reference dated 11 July 2018 regarding the caption.

Please note that the Air Quality Impact Assessment is not under our purview. We are not in a position to provide comments on the traffic figures tailor-made for the environmental assessment purposes.

Notwithstanding the above, please note that we would have no objection in principle to the methodology for traffic forecast if it is the same as that adopted in the traffic impact assessment for the captioned project.

Yours faithfully,

(Janet H.Y. CHING)
for Commissioner for Transport

c.c. CE/FM, CEDD

(Attn: Ms. Norelle Y.H. LI)

- Fax No. 2714 0113

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